

Operating manual

Professional wet vacuum cleaner Aquatix



**SHG SPECHTENHAUSER HOCHWASSER-
UND GEWÄSSERSCHUTZ GMBH**

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1 General information

1.1 Description

Wet vacuum cleaner with integrated draining pump, 7,5 m power cable with IP67 Schuko-plug, four-wheeled chassis with parking break, C-Storz coupling on outlet side, Ø40 or Ø50 wet vacuum accessory set with 4 m suction hose, 2 x 0,5 m extension tube made of aluminum, water vacuuming nozzle and crevice nozzle



1.1.1 Marking of the wet vacuum cleaner Aquatix

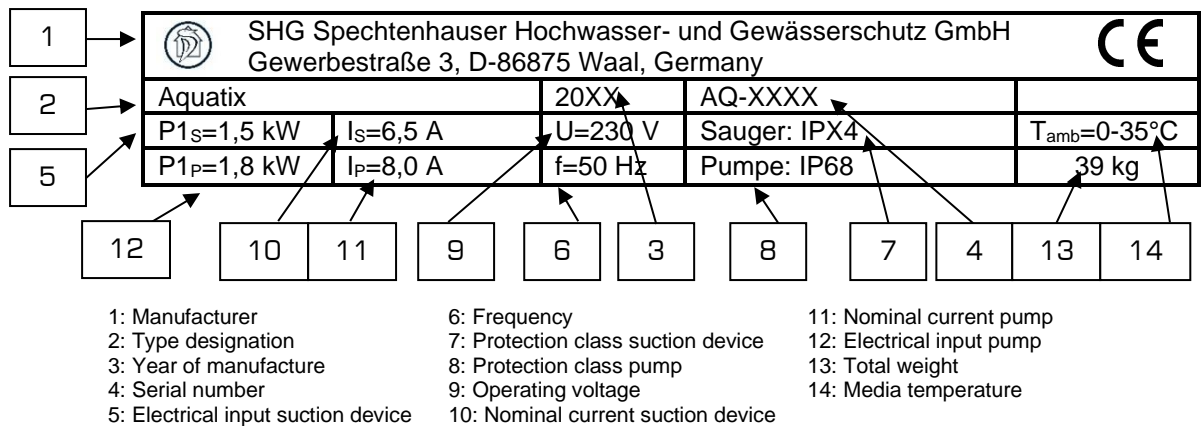
Wet vacuum cleaner and draining pump are marked by a type plate.

The type plate of the draining pump contains the following information:

1	SHG Spechtenhauser Hochwasser- und Gewässerschutz GmbH										CE	
2	Gewerbestraße 3, D-86875 Waal, Germany											
5	Aquatix Pumpe			20XX	AQP-XXXX			13 kg				
	P1=1,8 kW	U=230 V	f=50 Hz	H _{max} =14 m								
	JP68	n=1800 U/min	I=8,0 A	Q _{max} =100 l/min			5m					
8	9	12	6	10	3	11	7	4	14	13		

- 1: Manufacturer
- 2: Type designation
- 3: Year of manufacture
- 4: Serial number
- 5: Electrical input
- 6: Frequency
- 7: Max. head
- 8: Protection class
- 9: Operating voltage
- 10: Nominal current
- 11: Max. capacity
- 12: Nominal rotation speed
- 13: Max. immersion depth
- 14: Weight

The type plate of the Aquatix contains the following information:



1.1.2 Application

The mobile wet vacuum cleaner Aquatix is designed for suction and pumping of clear water, sewage and waste water including solids and suspended solids. The Aquatix must not be used in explosive areas.

1.1.3 Pumped medium

The pumped medium may not exceed a maximum density of 1.1 kg/l. Dangerous pumped media (e.g. explosive, flammable, toxic, hot > 45°C) should not be picked up by the wet vacuum cleaner. The draining pump can pump solids up to a particle size of 50 mm. The pH value of the pumped medium must lie within the range between 5 and 8. No guarantee can be given for safe operation of the pump if the pH value of the medium exceeds or is lower than the given value. In case of borderline pH values, the material resistance must be additionally tested before using the pump.

1.2 The operating instructions

These operating instructions contain information and instructions so that you can work safely, properly and economically with the wet vacuum cleaner. Only if the contents of the operating instructions are understood and followed can

- hazards be avoided and
- the reliability and life of the wet vacuum cleaner be increased.

With the issue of these operating instructions, regulations and standards not named in them are not rescinded.

1.2.1 Definition of terms

Several important terms are used in these operating instructions, which are defined as follows:

Owner/operator: The owner/operator is any natural or legal person, who uses the wet vacuum cleaner or on whose behalf the wet vacuum cleaner is used.

Wet vacuum cleaner: A wet vacuum cleaner is the complete wet vacuum cleaner Aquatix.

1.2.2 Marking of information and instructions



Safety instructions given in the operating manual, the non-observance of which could cause danger to life have been specifically highlighted with the general danger symbol.



The presence of dangerous voltage is identified with the safety symbol.



Other safety points in these instructions, the non-observance of which may endanger machinery or its operation, are marked as follows.

1.2.3 Explanation of symbols



CE symbol:

With the CE marking the manufacturer, distributor or authorised EU representative declares in accordance with EU Regulation 765/2008, that "the product is in conformity with the applicable requirements set out in Community harmonisation legislation providing for its affixing".



Do not spray water:

Prohibited sign "Do not spray water" according to safety sign ASR A1.3:2013 and DIN EN ISO 4844.

Prohibited sign: Do not spray water on the suction head.

2 Safety instructions (General safety instructions as per VDMA 24292)

This operation manual gives basic instructions that should be followed carefully during installation, operation and maintenance. It is essential that this manual is carefully read by the responsible personnel/operator before assembly and commissioning. It is always to be kept available at the installation/usage site of the wet vacuum cleaner.

2.1 Qualifications of personnel

An authorized (certified) electrician and mechanic shall carry out all work. Scope of responsibility and supervision of the personnel must be exactly defined by the operator. If the staff does not have the necessary knowledge, they must be trained and instructed, which may be performed by the manufacturer or supplier on behalf of the operator, moreover, the operator is to make sure that the contents of the operating manual are fully understood by the personnel.

Minimum requirements for the operating personnel:

- Legal age
- Firefighter training in accordance with the fire service regulation 2 and additional instruction of the trained machinist or "Technical Assistance" course in accordance with fire service regulation 2 or
- basic training Level I (German THW) as a rescue worker

Minimum requirements for the personnel for electric maintenance and inspection works:

- Legal age
- Qualified electrician

2.2 Hazards in the event of non-compliance with the safety instructions

Non-compliance with the safety instructions may produce a risk to the personnel as well as to the environment and the machine and results in a loss of any right to claim damages or compensation. For example, non-compliance may involve the following hazards:

- Failure of important functions of the pump
- Failure of specified procedures of maintenance and repair
- Exposure of people to electrical, mechanical and chemical hazards
- Endangering the environment owing to hazardous substances being released

2.3 Safety regulations for owner/operator

All safety instructions contained in this manual, all relevant national and local health and safety codes and any other service and safety instructions issued by the owner shall be complied with.

2.4 Safety regulations relevant for operation

Always follow these safety instructions before using the wet vacuum cleaner:

1. For your own safety

Only allow the wet vacuum cleaner to be used by persons who have been trained in its use and who have been explicitly authorized to use it.

Despite its simple handling the wet vacuum cleaner is not suitable for children.

The use of the wet vacuum cleaner is subject to valid national regulations. Besides the operating instructions and the binding accident prevention regulations valid in the country of use, observe recognized regulations for safety and proper use. Do not use any unsafe work techniques.

2. Transport

Before transporting the tank, close all the locks. Do not tilt the wet vacuum cleaner if there is liquid in the tank. Only carry the appliance on the chassis. Do not use a crane hook to lift the appliance.

3. Purpose and intended use

The wet vacuum cleaner described in this operating manual is intended for commercial and fire brigade use.

The following materials should not be picked up by the vacuum cleaner:

- Dry, damp or hazardous dust and materials
- Flammable, explosive dust (e.g. magnesium or aluminum dust, etc.)
- Hot materials (burning cigarettes, hot ash, etc.)
- Hot liquids $T > 45^{\circ}\text{C}$
- Flammable, explosive, aggressive liquids (e.g. petrol, solvents, acids, alkalis, etc.)



4. Precautions and safety regulations when using the vacuum cleaner

Before start-up:

Inspect power cord regularly to detect signs of damage, e.g. cracks or ageing.

If the power cord is damaged, it must be replaced by Spechtenhauser service or an electrician in order to avoid a hazard.

Use only the type of power cord specified in the operating manual.

Do not damage the power cord (e.g. by moving over it or pulling or crushing it). Inspect the vacuum cleaner to ensure that it is in proper condition. Disconnect the power cord by pulling the plug only (do not pull or tug the power cord).

Make sure to install the vacuum cleaner with IP67 plug and socket properly, i.e.; unscrew the cap, connect the plug into the socket and tighten the locking ring. Please repeat in the reverse order when disconnecting

Never use the vacuum cleaner if the filter sieve is damaged.



5. Picking up liquids

If foam develops or liquid emerges, stop work immediately and empty the tank.

6. Electrical components

Check the rated voltage of the vacuum cleaner before connecting it to the mains supply system. Ensure that the voltage shown on the type plate corresponds to the voltage of the local mains power supply.

If you are using an extension cord, use only those specified by the manufacturer or higher quality ones.

It is recommended that the vacuum cleaner should be connected via a residual current circuit breaker. This stops the supply of electricity if the leakage current to earth exceeds 30 mA for 30 ms or it has an earth tester circuit.

The protection class of all plug connections is IP67.

When using an extension lead, check the minimum cross-sections of the cable:

Cable length m	Cross section	
	< 16A	< 25A
up to 20m	Ø 1,5mm ²	Ø 2,5mm ²
20 to 50m	Ø 2,5mm ²	Ø 4,0mm ²

Arrange the electrical parts (sockets, plugs and couplings) and lay down the extension lead so that the protection class is maintained.

Never spray water on to the suction head of the vacuum cleaner. Danger for persons, risk of short-circuiting.

Observe the latest edition of the IEC regulations.



7. Accessories and spare parts

Use only the accessories supplied with the vacuum cleaner or specified in the operating manual. The use of other accessories can adversely affect safety. Use only original Spechtenhauser accessories and spare parts. The use of other parts can adversely affect safety.

8. Maintenance, cleaning and repair

Only carry out maintenance work described in the operating instructions.

Always pull out the mains plug before cleaning and maintenance of the vacuum cleaner.

2.5 Safety instructions relevant for maintenance, inspection and assembly work

It shall be the user's responsibility to ensure that all maintenance, inspection and assembly work is performed by authorized and qualified personnel who have adequately familiarized themselves with the subject matter by studying this manual in detail.

Any work on the machine shall only be performed when it is at stand-still. It is being imperative that the procedure for shutting down the machine described in this manual be followed. Wet vacuum cleaners which convey hazardous media must be decontaminated.

All waste emissions such as used oil must be appropriately disposed of, oil spills must be cleaned up and emissions to the environment must be reported. On completion of work all safety and protective facilities must be reinstalled and made operative again.

Any modification may be made to the vacuum cleaner only after consultation with the manufacturer. Using spare parts and accessories authorized by the manufacturer is in interest of safety. Use of other parts may exempt the manufacturer from any warranty or compensation claims.

2.6 Unauthorized modes of operation

The reliability of the wet vacuum cleaner delivered will be only guaranteed if it is used in the manner intended, in accordance with this manual. The limit values specified in the data sheet must under no circumstances be exceeded. These installation and operation instructions do not supersede or exclude generally valid regulation and standards.

3 Technical data

3.1 Technical data wet vacuum cleaner Aquatix

	Aquatix
Operating voltage	1~ 230 V
Frequency	50 Hz
Power consumption	1,5 kW
Volume flow (air)	3600 l/min
Negative pressure (water lift)	230 mbar
Working sound level	57 ± 2 dB(A)
Weight	39 kg
Protection class	IPX4
Dimensions LxWxH	530x520x900 mm

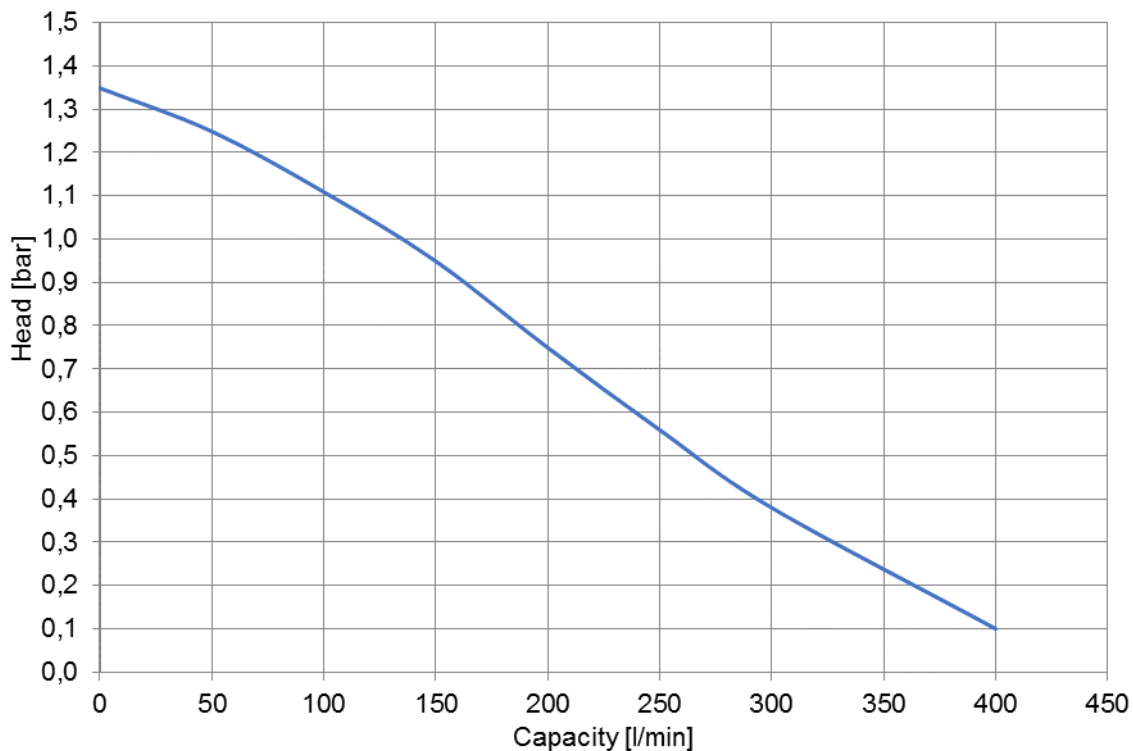
3.2 Technical data draining pump Aquatix

	Draining pump Aquatix	Draining pump Aquatix CH
Operating voltage	1~ 230 V	1~ 230 V
Frequency	50 Hz	50 Hz
Power consumption	1,8 kW	1,5 kW
Protection class	IP68	IP68
Max. head	14 m	11 m
Max. capacity	400 l/min	350 l/min
Max. solid size	50 mm	50 mm
Pump housing + impeller	Stainless steel DIN 1.4301	Stainless steel DIN 1.4301

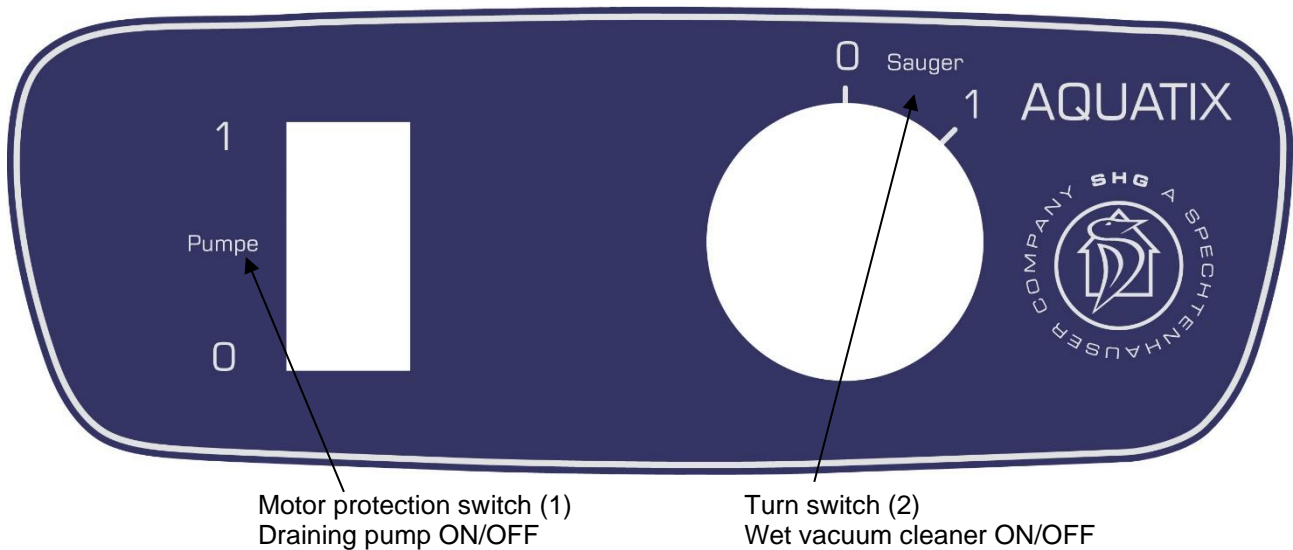
3.3 Pump performance

	Head H [bar]	0,1	0,2	0,4	0,6	0,8	1,0	1,2	1,4
Aquatix	Capacity [l/min]	400	360	290	240	190	135	70	0
Aquatix CH		350	320	260	200	140	70		

3.4 Capacity-head table draining pump Aquatix



3.5 Control panel



1. Motor protection switch draining pump ON/OFF

Position 0: Pump OFF

Position 1: Pump ON

Protects the draining pump against overload e.g. in case of blockages. In case of tripping of the motor protection switch first reset the switch to position 1. In case of repeated tripping check the pump for blockages. (see section 4.5).

2. Turn switch wet vacuum cleaner ON/OFF

Position 0: Vacuum cleaner OFF

Position 1: Vacuum cleaner ON

3.6 Tank

Material	PE-HD
Volume	80 l
Outlet	C-Storz / 2"

4 Operating the wet vacuum cleaner



Caution:

The wet vacuum cleaner may only be operated in compliance with the instructions and information of this operating manual. The operating personnel must ensure that no third parties (e.g. spectators during demonstrations, residents affected by floods, voluntary helpers, curious onlookers, etc.) can stand in the pumped fluid and can never get into the area of the pump intake (suction side) or pump outlet (pressure side).



Note:

Before starting the vacuum cleaner, check that the supplied voltage and frequency matches the information on the nameplate.



Danger from electric shock:

Bring electrical plug connections to a flood-proof area to protect them from water. Watch out for rising water levels in flood areas!



Danger from electric shock:

The wet vacuum cleaner may only be operated over sockets that are fused via a residual current device (RCD) with a rated residual current of no more than 30 mA.



Caution:

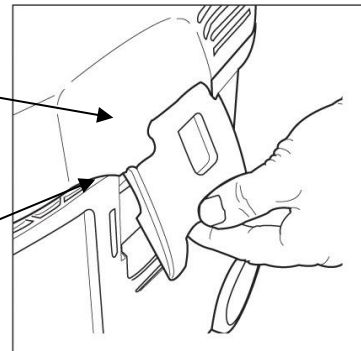
The wet vacuum cleaner is not able to pick up foam or similar, as such substances can't be measured by the automatic level control system. If foam develops or liquid emerges, stop work immediately and empty the tank.

4.1 Before starting

For safe working on and with the wet vacuum cleaner, the wearing of safety shoes and safety gloves is recommended, in order to prevent injury from crushing or cutting.

Each time when using the wet vacuum cleaner, also ensure the following points:

1. The mains plug should not yet be inserted into a socket.
2. Open the retaining clamps, disconnect the plug-and-socket connections and remove the suction head of the cleaner.
3. Take the accessories out of the tank and the packaging.
4. Fit the suction head on the cleaner, close the retaining clamps and connect the plug-and-socket connections.
5. Ensure that the retaining clamps fit properly.



On delivery some of the accessories are lying in the tank and must be removed before the wet vacuum cleaner is used for the first time.

4.2 Picking up liquids

When used properly, the wet vacuum cleaner Aquatix is suitable to pick up nonhazardous, nonflammable liquids, e.g. to pick up remaining water after water leaks or floods.



Caution:

Do not pick up flammable and hazardous liquids.

Before picking up liquids check the floater for proper operation (See section 6.5)

Do not use the vacuum cleaner as a water pump. Do not insert the suction pipe or suction nozzle completely in the water but always draw in a small amount of air in order to protect the turbine from overheating.

If foam appears, stop work immediately and empty the tank. To reduce the amount of foam, use foam killer.

4.3 Operation

1. Ensure that the cleaner is switched off.
2. Mount the suction hose on the inlet side of the wet vacuum cleaner.
3. Mount a dimensionally stable spiral pressure hose with C-Storz coupling to the outlet side of the vacuum cleaner. A suitable fire hose can now be connected to this spiral hose. Lay this at a suitable drain or collection tank. The end of the pressure hose must be adequately secured against impact. The fire hose should be laid without kinks where possible to achieve an optimum pumping power. It is strongly recommended that you use the optional dimensionally stable spiral pressure hose for the first 3-5 m.



Danger:

Ensure that the pressure hose end is adequately secured and fixed. Otherwise, there is the risk of the hose end being hit when switching on the wet vacuum cleaner.

4. Insert the power cord into a properly installed and fused socket with earthing contact.



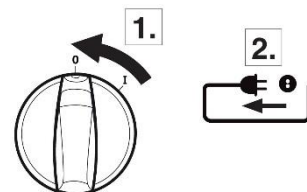
Danger from electric shock:

The wet vacuum cleaner may only be operated over sockets that are fused via a residual current device (RCD) with a rated residual current of no more than 30 mA.

5. Set the motor protection switch "Pump ON/OFF" (1) to position 1 (operating state).
6. Switch on the vacuum cleaner by turning the ON/OFF (2) switch to position 1. The suction motor starts.
7. The vacuum cleaner is ready for picking up liquids.
8. The draining pump runs permanently and drains the tank.
9. In case of a soiled filter sieve, clean it manually (see section 6.5).

4.4 After finishing work

1. Turn the switch wet vacuum cleaner ON/OFF to position 0 for switching off the vacuum cleaner.
2. Pull the mains plug out of the socket.
3. Wind up the power cable and hang it on the handle.
4. Empty the tank and clean the vacuum cleaner and the tank (see section 6.2 and 6.4.)



5. Store the suction head of the cleaner separately so that the filter sieve and tank can dry. In case of strongly soiled liquids clean the draining pump separately (see section 4.5)
6. Stow the accessories in the dry tank.
7. Store the cleaner in a dry room where it is protected from unauthorized use.

4.5 Maintenance/cleaning of the draining pump

It shall be the user's responsibility to ensure that all maintenance, inspection and assembly work is performed by authorized and qualified personnel who have adequately familiarized themselves with the subject matter by studying this manual in detail.

Any work on the machine shall only be performed when it is at stand-still. For this, switch off the vacuum cleaner by turning the ON/OFF switch to position "0" and disconnected the network plug. Prevent accidental restart of the vacuum cleaner by taking appropriate measures. Vacuum cleaner which convey hazardous media must be decontaminated.



Caution:

Always pull out the network plug before cleaning and maintenance of the draining pump. Prevent accidental restart of the vacuum cleaner by taking appropriate measures.

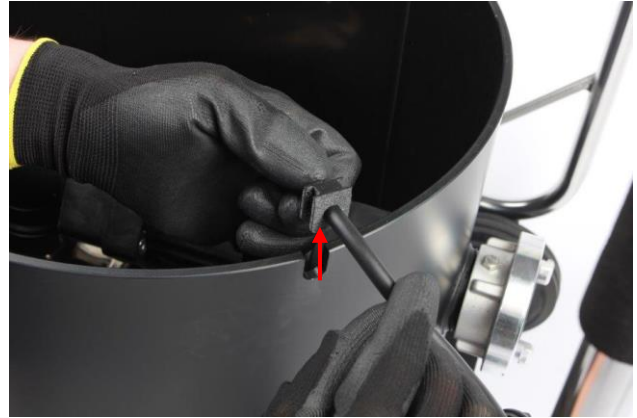
1. Open the retaining clamps, disconnect the plug-and-socket connections and remove the suction head of the cleaner.



2. Open the elastic connection by unscrewing both hose clamps.



3. Remove the cable fairlead of the draining pump from the tank.



4. Lift the pump out of the dirt tank and ensure that the elastic connector remains on the outlet of the pump.



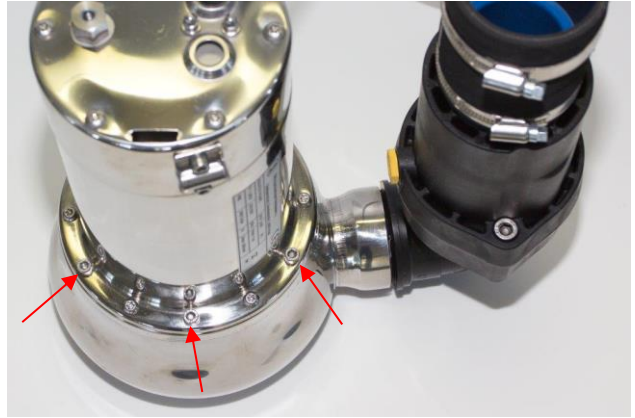
5. Put the pump down.



6. Open the three highlighted screws and take the pump out of the support.



7. Place the pump upright and remove all 6 cylindrical screws with hexagon socket (M5) (every second screw) from the spiral housing of the pump. Don't remove the 6 torx safety screws which are responsible for the motor encapsulation.



8. Remove the motor from the spiral housing, clean the spiral housing and the impeller and make sure that the impeller can be easily moved.



9. Assembly of the pump takes place in reverse order.

5 Accessories

5.1 Standard accessory

The standard scope of supply is available in Ø40 or Ø50 version and consists of:

- 4 m suction hose
- 2 x 0,5 m suction tube
- Water vacuuming nozzle
- Crevice nozzle

The Ø40 wet vacuum accessory set can be stowed away in the tank of the wet vacuum cleaner (see picture below). In case of the Ø50 wet vacuum accessory set the use of boxes (minimum size: 600 x 400 x 220 mm) is recommended.



5.2 Optional accessory

The following optional accessory is available for Aquatix:

- Safety switches: portable residual current devices (PRCD)
- PVC spiral hoses for optimum capacity
- Gate valve with C-Storz couplings
- C-Storz blank cap
- Accessory pack with 5 m PVC spiral hose, C-Storz gate valve and C-Storz blank cap

6 Service and Maintenance

It shall be the user's responsibility to ensure that all maintenance, inspection and assembly work is performed by authorized and qualified personnel who have adequately familiarized themselves with the subject matter by studying this manual in detail. Any work on the machine shall only be performed when it is at stand-still. For this, switch off the vacuum cleaner by turning the ON/OFF switch to position "0" and disconnected the network plug. Prevent accidental restart of the vacuum cleaner by taking appropriate measures. Vacuum cleaner which convey hazardous media must be decontaminated.

6.1 Maintenance rate

The wet vacuum cleaners are completely maintenance-free. All components requiring lubrication are lifetime-lubricated. During the annual electrical test in accordance with DIN VDE 0701-0702 a trial run must also be performed to check the functional capability of the vacuum cleaner. In case of vibrations, eccentric pump running or grinding noises a customer service must be carried out in the factory.

6.2 Maintenance and cleaning

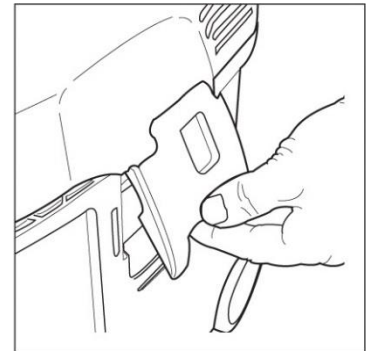
Clean the vacuum cleaner with clear water after each use, particularly after using it with muddy liquid. In addition, let the vacuum cleaner run for about 10 minutes in a basin with clean water. The vacuum cleaner is to then be completely emptied. Afterwards let the vacuum cleaner run without pumped medium. In case of vibrations, eccentric pump running or grinding noises a customer service must be carried out in the factory.

6.3 Motor

With all wet vacuum cleaners, opening of the vacuum and pump motor is not permitted. Repairs and maintenance on the motor may only be carried out by Spechtenhauser Customer Service or at the plant. In case of infringement, all claims for warranty and damages are lost.

6.4 Emptying the dirt tank

1. Switch off the vacuum cleaner and pull the network plug out of the socket. Prevent accidental restart of the vacuum cleaner by taking appropriate measures.
2. If connected, remove suction and pressure hose from the vacuum cleaner.
3. Open the retaining clamps, disconnect the plug-and-socket connections and remove the suction head of the cleaner.
4. Empty the tank.



After emptying the tank:

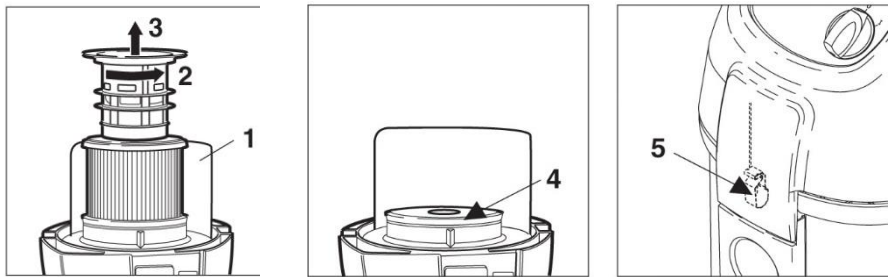
Clean the rim of the tank and the seals in the intermediate ring and the suction head of the cleaner before refitting them. If the seal or groove is dirty or damaged, the suction performance will be reduced.

Before reinserting the suction hose:

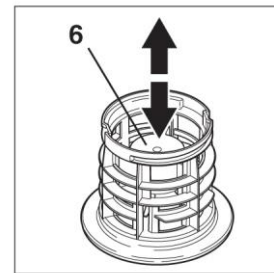
Clean the inlet fitting and hose collar.

5. Clean the tank and the pump and dry wet machine parts.
6. Place the suction head on the tank only in dry condition.
7. Connect the previously opened plug-and-socket connections properly.

6.5 Cleaning and replacing the filter sieve



1. Open the retaining clamps and remove the suction head of the cleaner from the tank (see section 6.4). Lay the suction head of the cleaner down with the filter sieve facing upwards. Do not stand the suction head of the cleaner on the guard (1) and do not damage the filter sieve.
2. Turn the filter holder anti-clockwise (2) and remove it (3).
3. Carefully remove the filter sieve.
4. Clean the filter seal (4). Check it for damage and replace if necessary.
5. Check antistatic clamp (5) for damage and replace if necessary.
6. Check the floater (6) for proper operation: When you turn the filter holder, the floater should move back and forth easily.
7. Clean the filter sieve.
8. Fit the cleaned or new filter sieve.
9. Fit the filter holder and turn it clockwise to secure it.
10. Dispose of the used filter element in accordance with legal regulations.



Caution:

Never use the wet vacuum cleaner without filter sieve.

7 Troubleshooting

Malfunctions; causes and rectification

Fault	Cause	Remedy
Motor does not start	Fuse of the mains socket has blown.	Connect mains fuse.
	Overload protection switch has tripped.	Switch off the wet vacuum cleaner and allow it to cool for approx. 5 minutes. If the cleaner cannot be started again, contact the Spechtenhauser service department.
	Self-acting carbon brush is worn.	Have carbon brushes changed by Spechtenhauser service
Motor does not work, despite switch position „I“	Draining pump faulty.	Switch off the cleaner. Empty the tank and check the draining pump (see section 4.5)
	Draining pump overloaded.	Check pressure line and if necessary, remove blockages and kinks in the pressure line.
	Draining pump not connected.	Connect the draining pump to the corresponding socket.
	Head too high.	Interrupt the suction operation by pressing the button “Vacuum cleaner OFF” and drain the tank by pushing the button “Pump ON”.
Draining pump does not run	Motor protection switch of the training pump tripped out	Reset motor protection switch (see section 3.5)
		Empty the tank, check the draining pump and clean it if necessary (see section 4.5)
		Viscosity of the pumped medium too high. Dilute medium, if possible.
	Motor temperature too high	Let the pump motor cool down. In case of repeated failure the motor has to be checked by the Spechtenhauser service.
Leaky motor	The motor has to be checked by the Spechtenhauser service.	
Reduced suction power	Suction head too high.	Reduce suction head.
	Clogged suction hose/nozzle	Clean suction hose/nozzle
	Filter sieve is clogged.	Clean or replace the filter sieve (see section 6.5)
No suction power	Tank is full.	Switch off the cleaner. Empty the tank. Check the floater for proper operation (see section 6.5).
Voltage fluctuations	Impedance of power supply is too high.	Connect the cleaner to another socket closer to the fuse box. Voltage fluctuations over 7% should not occur if the impedance at the transfer point is $\leq 0.15 \Omega$.

In all further questions, please contact our customer service department.

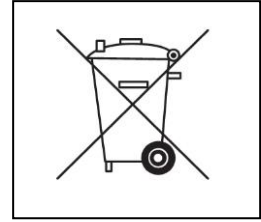
8 Further information

8.1 *Recycling the wet vacuum cleaner*

Make the old cleaner unusable immediately.

- Unplug the cleaner and cut the power cable.

Do not discard of electrical appliances with household waste.



As specified in European Directive 2012/19/EU on old electrical and electronic appliances, used electrical goods must be collected separately and recycled ecologically.

Contact your local authorities or your nearest dealer for further information.

8.2 *Guarantee*

Our general conditions of business are applicable with regard to the guarantee.
Subject to change as a result of technical advances

8.3 *Tests and approvals*

Electrical tests must be performed in accordance with the provisions of safety regulations (BGV A3) and to DIN VDE 0701 Part 1 and Part 3. In accordance with DIN VDE 0702 these tests must be performed at regular intervals and after repairs and modifications. The wet vacuum cleaner has been approved in accordance with IEC/EN 60335-2-69.

**EG-Konformitätserklärung
Declaration of EC-Conformity
Attestation de Conformité CE
Declaración de conformidad CE**

Hiermit erklären wir, dass alle Exemplare unserer Geräte
Herewith we declare that all our devices
Nous attestons par la présente, que tous nos produits
Por la presente declaramos, que todas las unidades de nuestros dispositivos

Aquatix

den wesentlichen Schutzanforderungen folgender Richtlinien entsprechen:
comply with the following provisions applying to:
correspondent aux principales directives suivantes:
se corresponden con los requisitos esenciales de protección de las siguientes directivas :

Maschinenrichtlinie / Machinery Directive / Directive machine / Directiva de máquinas 2006/42/EG

Angewandte harmonisierte Normen, insbesondere:
Applied harmonized standards in particular:
Principales normas armonizadas, en particulier:
Normas armonizadas empleadas, en especial :

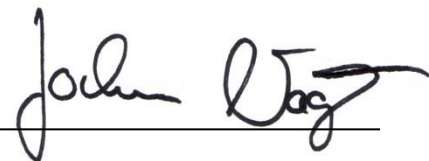
2006/42/EG

EN 12100
EN 60335-1
EN 60335-2-69

Bei einer nicht mit uns abgestimmten Änderung des Gerätes verliert diese Erklärung ihre Gültigkeit.
By altering the device without approval the declaration would invalidate.
Toute modification de la machine, effectuée sans notre accord, annule la validité de la présente déclaration.
En caso de una modificación del dispositivo no acordada con nosotros esta declaración pierde su validez.

D-86875 Waal, 19.06.2018

SHG Spechtenhauser Hochwasser- und Gewässerschutz GmbH



Jochen Wagner
Geschäftsführer
Managing director
Gérant
Director ejecutivo

**Bevollmächtigter der technischen Unterlagen nach 2006/42/EG:
Authorized person of the technical documentation according to 2006/42/EC:
Agent de la documentation technique selon 2006/42CE:
Apoderado para la documentación técnica según 2006/42/CE:**

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