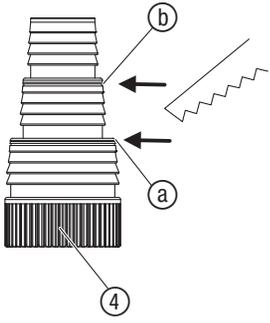


**19500 AquaSensor** Art. 9049

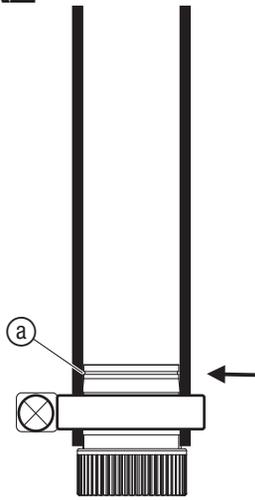
**EN Operator's manual**  
Clear/Dirty Water Submersible Pump

---

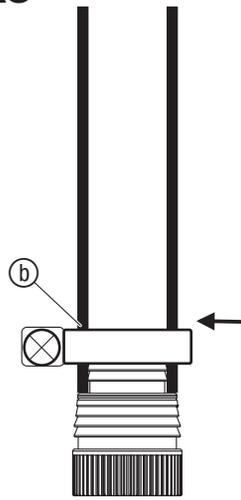
**A1**



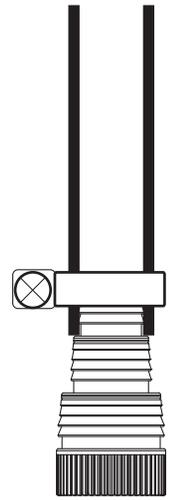
**A2**



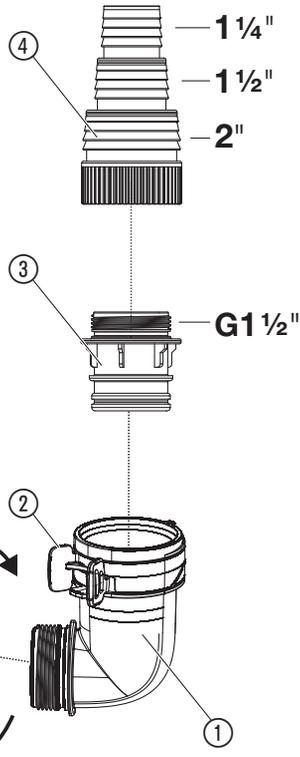
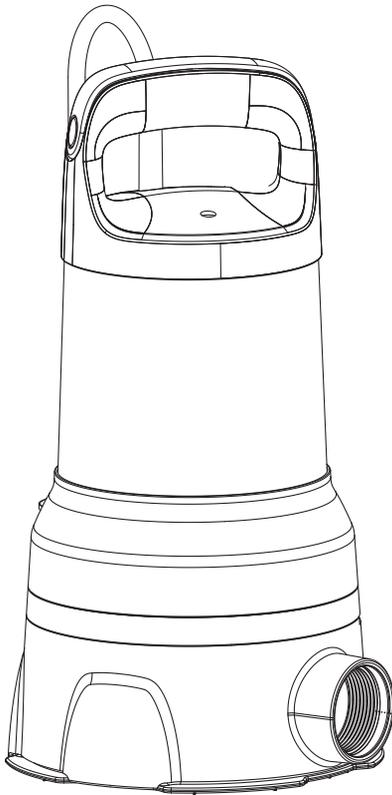
**A3**



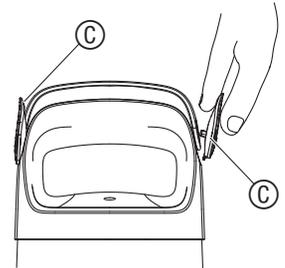
**A4**



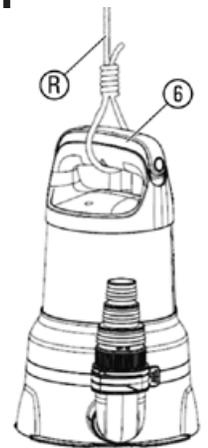
**A5**



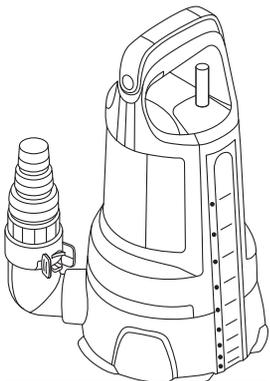
**A6**



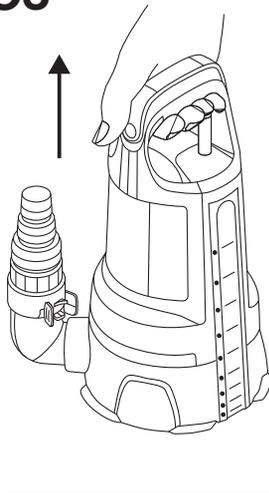
**O1**



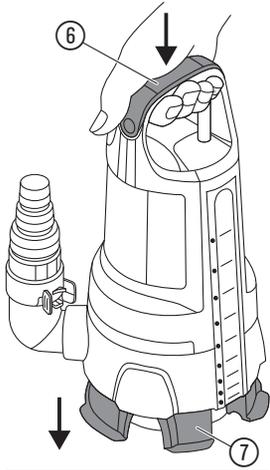
**O2**



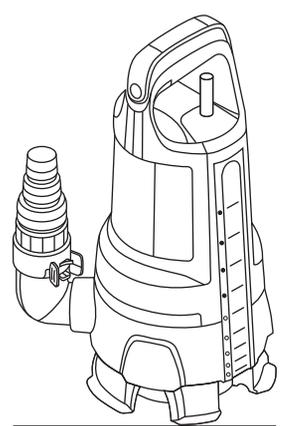
**O3**



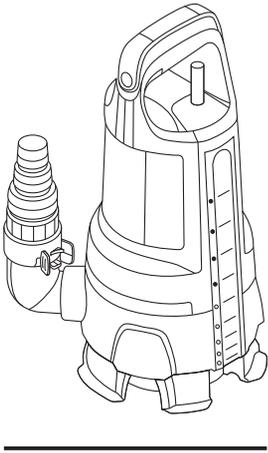
**O4**



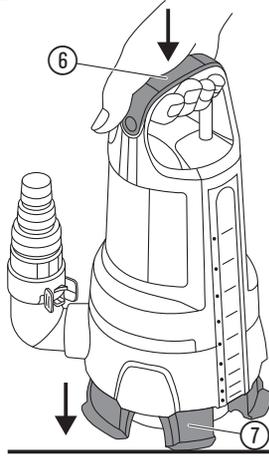
**O5**



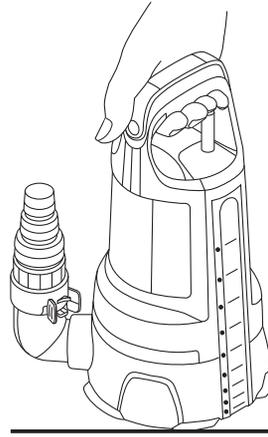
**O6**



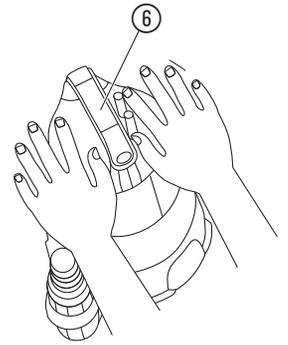
**O7**



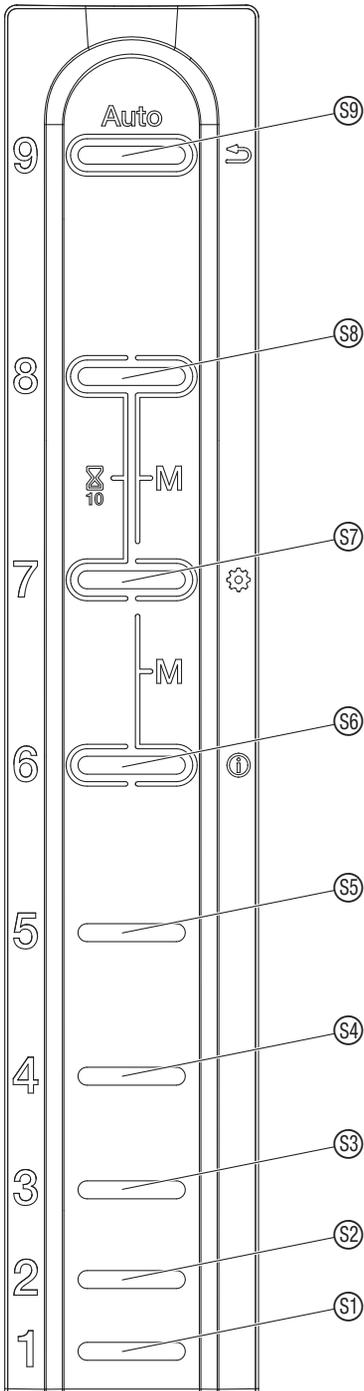
**O8**



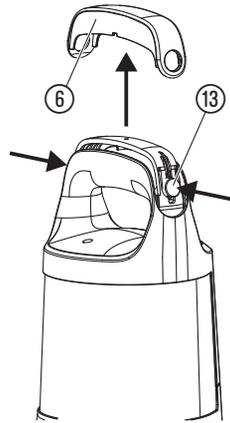
**O9**



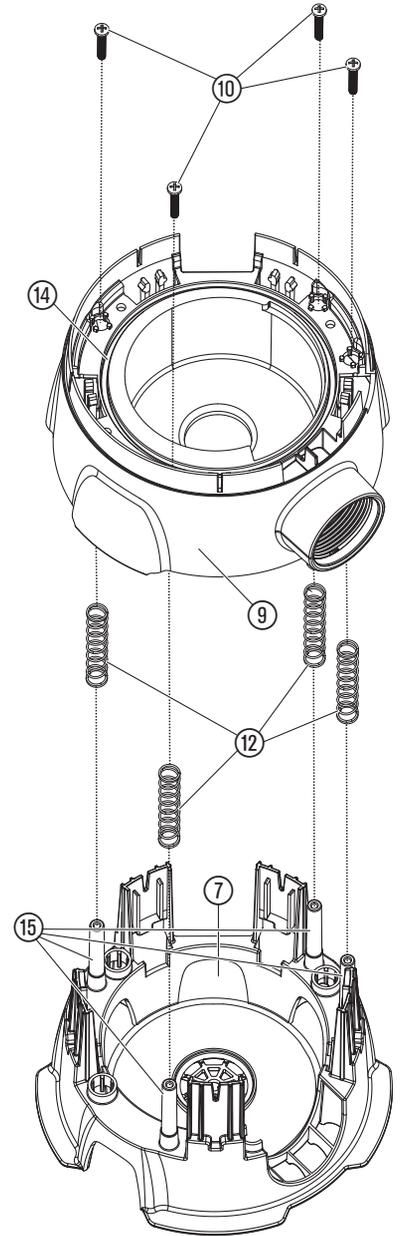
**O10**



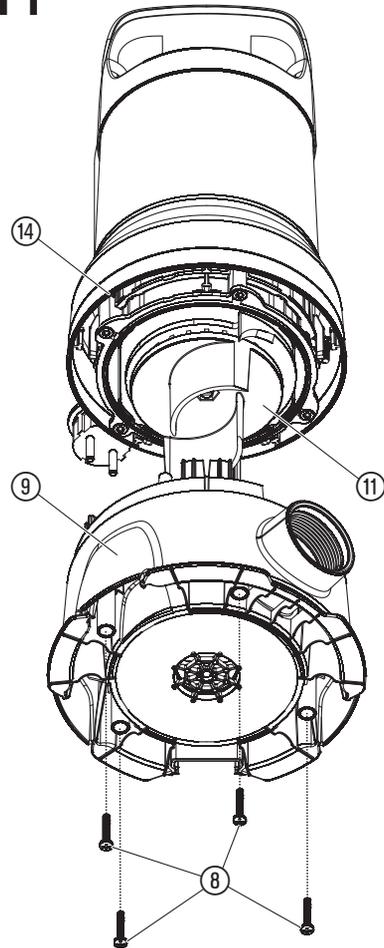
**M1**



**T2**



**T1**



## EN Clear/Dirty Water Submersible Pump 19500 AquaSensor

1. SAFETY .....	9
2. ASSEMBLY .....	9
3. OPERATION .....	10
4. MAINTENANCE .....	11
5. STORAGE .....	11
6. TROUBLESHOOTING .....	11
7. TECHNICAL DATA .....	12
8. ACCESSORIES .....	12
9. SERVICE/WARRANTY .....	12

### Translation of the original instructions.



This product may be used under supervision, or if instruction regarding the safe use of the product has been provided and the resulting dangers have been understood, by children aged 8 and above, as well as by persons with physical, sensory or mental disabilities or a lack of experience and knowledge. Children must not be allowed to play with the product. Cleaning and user maintenance must not be performed by children without supervision. The use of this product by young people under the age of 16 is not recommended.

### Intended use:

The **GARDENA Submersible Pump** is intended for drainage purposes if flooding occurs but also for transferring water to and from tanks and pumping them out, for drawing water from wells and shafts, for draining boats and yachts and for aerating and circulating water for limited periods and for pumping water containing chlorine and detergents in private domestic gardens and allotments.

### Liquids to be pumped:

The GARDENA Submersible Pump must only be used to pump water.

The pump is fully submersible (water-tight encapsulation) and is submerged in water (for max. submersion depth see 7. TECHNICAL DATA).

The product is suitable for pumping the following liquids:

- **Clear Water Setting:** clean to slightly dirty water with a max. particle size of 5 mm.
- **Dirty Water Setting:** clean to very dirty water with a max. particle size of 35 mm.

The product is not intended for long term use (continuous circulation operation).



### **DANGER! Risk of physical injury!**

→ **The pump should not be used for the delivery of salt water, corrosive, easily inflammable or explosive liquids (e.g. petrol, paraffin, thinners), oil, heating oil or foodstuffs.**

# 1. SAFETY

**Important! Read the operator's manual carefully before use and keep for future reference.**

## Symbols on the product:



Read operator's manual.

## General safety warnings

### Electrical safety



**DANGER! Electric shock!**

Risk of injury due to electric shock.

- The product must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.
- Contact GARDENA Service if the Residual Current Device (RCD) has triggered.



**DANGER! Risk of injury!**

Risk of injury due to electric current.

- Disconnect the product from the mains before you maintain or replace parts. Thereby the disconnected socket must be in the visual range.

### Safe operating practices

The water temperature should not exceed 35 °C.

The pump must not be used when people are in the water.

Pollution of the liquid could occur due to leakage of lubricants.

Do not use below +3 °C ambient/media temperature.

Keep bystanders away from the water.

Operate the pump only with the elbow connector.

The hose end should be lower than the maximum delivery head.

### Circuit breakers

#### Thermal protection switch:

In the event of an overload, the pump is switched off by the built-in thermal motor protection. After sufficient cooling of the motor, the pump is operational again.

### Automatic venting

This pump is equipped with a vent valve which eliminates any air pockets in the pump. Depending on the function, a small amount of water can escape from the side of the housing.

## Additional safety warnings

### Electrical safety



**DANGER! Cardiac arrest!**

This product makes an electromagnetic field while it operates. This field may under some conditions interfere with active or passive medical implants. To decrease the risk of conditions that can possibly injure or kill, we recommend persons with medical implants to speak with their physician and the medical implant manufacturer before you operate the product.

### Cables

If extension cables are used, these must comply with the minimum cross-sections in the table below:

Voltage	Cable length	Cross section
230 – 240 V/50 Hz	Up to 20 m	1.5 mm <sup>2</sup>
230 – 240 V/50 Hz	20 – 50 m	2.5 mm <sup>2</sup>



**DANGER! Electric shock!**

With a cut off mains plug, moisture can get into electrical parts via the mains cable and cause a short circuit.

- Never cut the mains plug off (e.g. to feed through wall).
- Don't use the power cable for plugging off.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Mains plug and extension connections must be protected from water splashes.

Ensure that the electrical connections for plugs and sockets are made in areas safe from flooding.

Protect the mains plug and the mains power cable from heat, oil and sharp edges.

Observe the mains voltage. The information on the nameplate must be in agreement with the data for the mains power grid.

The pump's mains plug must be disconnected before anybody enters the swimming pool or touching the surface of the water.

The mains power cable must not be used for fastening or transporting the pump. For submerging or lifting/securing the pump, please use a fastening rope. Do not use the power cable to lift the pump.

Please regularly check the connecting line.

Before using, always subject the pump (especially the power cables and the power connections) to a visual inspection.

A pump which is damaged should not be used. In the event of damage, have the pump checked by GARDENA Service.

Assembly instructions: Retighten all screws by hand.

Before use after maintenance, make sure that all parts are screwed together.

When using our pumps with a generator, the warnings of the generator manufacturer must be observed.

## Personal safety



**DANGER! Risk of suffocation!**

Small parts can be easily swallowed. There is also a risk that the poly-bag can suffocate toddlers. Keep toddlers away when you assemble the product.

Please be sure not to use the clear water function to pump dirty water. It can lead to blockage and overheating of the pump.

Observe the minimum water level in accordance with the characteristics given for the pump.

Allow the pump to run no longer than 10 minutes against a closed pressure side.

Sand and other abrasive substances cause increased wear and reduce the pump's output.

The sensor fields may only be operated outside the water.

The hose must not be disconnected during operation.

Allow the pump to cool down before troubleshooting.

# 2. ASSEMBLY



**DANGER! Risk of physical injury!**

Injury when the product starts accidentally.

- Disconnect the product from the mains before you assemble the product.

## To remove the handle lock [Fig. A6]:

The handle lock ③ must be removed before the product is used for the first time.

1. Pull the attached handle locks ③ outwards.
2. Keep them for later securing procedures (e.g. transport or storage).

## Connection possibilities of the connection nipple [Fig. A1]:

The hose can be connected via the connection nipple ④ with different hose diameters.

**Large hose diameter** Cut off nipple at ① [Fig. A2]

**Medium hose diameter** Cut off nipple at ② [Fig. A3]

**Small hose diameter** Do not cut off nipple [Fig. A4]

When using the largest hose diameter, the pump has the maximum delivery capacity.

**Pump** Art. 9049

**Small hose diameter** 32 mm (1 1/4")

**Art. GARDENA Hose Clamp** Art. 7194

**Medium hose diameter** 38 mm (1 1/2")

**Art. GARDENA Hose Clamp** Art. 7195

**Large hose diameter** 51 mm (2")

**Art. GARDENA Hose Clamp** Art. 7196

When using the 38 mm (1 1/2") hose, we recommend the **GARDENA Flat Hose Set Art. 5005** with 10 m hose and hose clamp.

## To connect the hose via the connection nipple:

1. When using the large diameter hose, cut off the connection nipple ④ at ①.
2. When using the medium hose diameter, cut off the connection nipple ④ at ②.
3. Push the hose onto the connection nipple ④.
4. Fix the hose to the connection nipple ④ e.g. with a GARDENA Hose Clamp.

**To assemble the pump connection [Fig. A5]:**



**DANGER! Risk of physical injury!**

**Cut injury by the impeller.**

→ **Operate the pump only with the elbow connector.**

The hose can be easily connected and disconnected using the locking devices ② on the elbow connector ①.

1. Screw the elbow connector ① clockwise into the pump until it stops. (If the hose is to be installed horizontally, the elbow connector ① can be screwed out again up to half a turn.)
2. Screw the connection piece ③ into the connection nipple ④.
3. Push the connection nipple ④ of the hose into the elbow connector ① until it stops and it engages audibly and visibly. *The hose is securely connected to the pump.*

### 3. OPERATION



**DANGER! Risk of physical injury!**

**Injury when the product starts accidentally.**

→ **Disconnect the product from the mains before you connect, adjust or transport the product.**

**To pump water:**

If the pump cannot be immersed via the handle, the pump must always be immersed via a rope ⑧ [Fig. O1].

Attach the rope ⑧ by tying it to the handle. The button ⑥ must not be depressed. Minimum immersion depth during initial operation see 7. TECHNICAL DATA.

Take care that the pump is located where the inlet openings at the suction base are not obstructed neither completely nor partly.

Stand the pump on a brick if using in a pond.

If the suction process is close to the minimum water level at start-up, the suction process may take longer.

1. Immerse the pump.
2. Connect the pump to the mains. *Attention! The pump can start immediately depending on the sensor setting.*

**Automatic operation [Fig. O10]:**

In automatic operation the pump switches on automatically when the water level reaches the switch-on level and switches off automatically when the water level reaches the switch-off level.

**Switch-on/switch-off heights of the sensor fields:**

The sensor has nine sensor fields (S1 to S9 from bottom to top), which are located to the right of the LEDs.

The sensor fields are about 1 cm high (no finger or changed water level is detected between the sensor fields).

**Switch-on/switch-off heights in mm:**

Sensor field	S1	S2	S3	S4	S5	S6	S7	S8	S9
<b>Clear water: Off/On</b>	11	23	38	57	81	109	140	174	211
<b>Dirty water: Off/On</b>	49	61	73	95	119	147	178	212	249

After plugging in the pump the 9 LED's light up one after the other.

The pump starts at the factory in automatic mode with sensor field switch-on height S9 and sensor field switch-off height S4.

**To adjust the switch-on/switch-off heights [Fig. O10]:**

The sensor fields can only be adjusted outside the water.

When the pump has been removed from the water, the sensor should be dried for programming.

The upper sensor field is always the switch-on height, the lower sensor field is always the switch-off height.

1. Operate the sensor field until the input is acknowledged with a short double flash of all LEDs.
2. Keep the sensor field S7 pushed until the double flashing of all LED's has acknowledged the input. *The currently set switch-on and switch-off heights are briefly displayed. After that all sensor fields light up.*

3. Push the desired upper sensor field for the switch-on height. *The LED of the selected sensor field switches off.*
4. Push the desired lower sensor field for the switch-off height. *The LED of the selected sensor field switches off. After 3 seconds, the set switch-on and switch-off heights are accepted and displayed.*

**Automatic clear water suction for very low water levels:**

Sensor field S9 can be selected both as switch-on and switch-off point. If the sensor field S9 still detects water within 10 minutes after starting the pump, the pump switches off to prevent damage due to dry running. The pump will still start if sensor field S2 detects water. In this case, however, the sensor should be cleaned to ensure exact water level detection.

**To display switch-on and switch-off heights:**

1. Take the pump out of the water and dry the sensor area.
2. Keep the sensor field S9 pushed until the double flashing of all LED's has acknowledged the input. *The currently set switch-on and switch-off heights are displayed.*

**Disable the water level tracking:**

In automatic operation, the LEDs follow the water level. This can be deactivated.

1. Take the pump out of the water and dry the sensor area.
2. Keep the sensor field S9 pushed during initialisation until the double flashing of all LED's has acknowledged the input (see **To pump water**).

To switch the water level tracking back on, push and hold the sensor field S9 again during initialisation until the double flashing of all LED's has acknowledged the input.

**Demo mode:**

For presentation purposes, the pump can be put into demo mode. In this mode, the LEDs simulate the pump's functions via flashing sequences and the sensor fields react to touch.

1. Take the pump out of the water and dry the sensor area.
2. Keep the sensor fields S6 and S9 pushed during initialisation when switching on or during the self-test after plugging in until the double flashing of all LED's has acknowledged the input.

To switch off the demo mode again, push and hold the sensor fields S6 and S9 during initialization when switching on or during the self-test after plugging in until the double flashing of all LED's has acknowledged the input.

**Manual operation [Fig. O10]:**

In manual mode the pump runs until the pump is disconnected from the mains. This mode is particularly suitable for flat suction.

In manual operation the sensor fields are deactivated. The pump then runs until the pump is disconnected from the mains or another operating mode is selected.

→ Keep the sensor fields S6 and S9 pushed until the double flashing of all LED's has acknowledged the input. *All LEDs will light up and within 5 seconds all the LEDs will switch off one after the other. The pump starts.*

During these 5 seconds the pump should be placed in the water. A start will only take place if the pump detects water. If this is not the case, the countdown is repeated up to three times.

If you need more time to put the pump into the water, please disconnect the pump from the power supply. The countdown will continue after the sensor is plugged in again.

The manual operation remains active even after disconnecting the power supply.

To stop manual operation, disconnect the pump from the mains and take it out of the water. Connect the pump to the power supply again and keep sensor field S9 pressed until it is acknowledged by double flashing of all LEDs. Now you are again in automatic mode.

**Only operate the manual mode under supervision.**

**Time-limited manual operation:**

In time-limited manual operation, the sensor fields are deactivated for 10 minutes. The pump then runs for 10 minutes and then switches off automatically.

→ Keep both sensor fields S7 and S9 pushed until the double flashing of all LED's has acknowledged the input. *All LEDs will light up and within 10 seconds all LEDs will switch off one after the other. The pump starts.*

After 10 minutes the pump automatically switches back to automatic operation.

After disconnecting the power supply, the pump automatically switches back to automatic operation.

To return to the automatic mode again, push and hold the 2 sensor fields  and  simultaneously until the double flashing of all LEDs has acknowledged the input.

#### To change the function mode:

The pump can be switched between clear water and dirty water. To do this, the pedestal is extended or retracted.

#### To extend the pedestal (dirty water) [Fig. O2 – O5]:

1. Take the pump out of the water [Fig. O2].
2. Lift up the pump and push the button  until the pedestal  is fully extended [Fig. O3].
3. If the pedestal does not extend completely, stand with your feet on the wings of the stand and pull the pump upwards [Fig. O4].
4. Release the button  again before you put the pump back down [Fig. O5].

The max. delivery rate is achieved with the pedestal extended.

The pedestal is correctly locked in position when the button is fully extended. If the button is not fully extended, repeat the process.

#### To retract the pedestal (clear water) [Fig. O6 – O9]:

1. Take the pump out of the water [Fig. O6].
2. Place the pump on a firm surface and push the button  [Fig. O7].
3. Push the pump down until the pedestal  is fully retracted and release the handle [Fig. O8].
4. To lock, push the pump down until the button  is fully extended again [Fig. O9].
5. When submerging the pump again, make sure that it is on a firm surface so that it cannot get stuck (e.g. foil).

The minimum residual water depth (see 7. TECHNICAL DATA) is only achieved with the pedestal retracted in manual mode.

For best possible suction, we recommend switching to clear water mode when the water level has reached the turquoise ring.

## 4. MAINTENANCE



**DANGER! Risk of physical injury!**

**Injury when the product starts accidentally.**

→ **Disconnect the product from the mains before you maintain the product.**

#### To clean the pump:



**DANGER! Risk of physical injury!**

**Risk of injury and risk of damage to the product.**

→ **Do not clean the product with a water jet (in particular high-pressure water jet).**

→ **Do not clean with chemicals including petrol or solvents. Some can destroy critical plastic parts.**

→ Clean the surface of the pump with a damp cloth.

#### To flush the pump:

After pumping water containing chlorine, detergents or heavily soiled water, the pump must be flushed.

1. Pump lukewarm water (max. 35 °C), possibly adding a mild cleaning agent (e.g. detergent) until the pumped water runs clear.
2. Flush the button if the water is very dirty.
3. Remove residuals according to the waste disposal laws applicable in your area.

#### To clean the button [Fig. M1]:

If the button gets stuck due to dirt, it can be cleaned.

1. Push in the two lockings .
2. Pull off the button .
3. Clean the button , the lockings  and the handle under running water.
4. Reassemble the button  in reverse order.

## 5. STORAGE

#### To put into storage:

**The pump is not frost-proof!**

**The product must be stored away from children.**

1. Disconnect the pump from the mains.
2. Turn the pump upside down until no more water runs out.
3. Clean the pump (see 4. MAINTENANCE).
4. Store the pump in a dry, enclosed and frost-free place.

#### Disposal:

(in accordance with RL2012/19/EC)



The product must not be disposed of to normal household waste. It must be disposed of in line with local environmental regulations.

#### IMPORTANT!

→ Dispose of the product through or via your municipal recycling collection centre.

## 6. TROUBLESHOOTING



**DANGER! Risk of physical injury!**

**Injury when the product starts accidentally.**

→ **Disconnect the product from the mains before you troubleshoot the product.**

#### To clean the pedestal and the impeller [Fig. T1/T2]:

If the pedestal cannot be changed according to the chapter 3. OPERATION *To change the function mode*, the pedestal must be cleaned.

1. Unscrew the 4 Phillips screws .
2. Pull the suction base  off the pump.
3. Unscrew the 4 Phillips screws .
4. Pull the pedestal  off the suction base .
5. Clean the pedestal , the suction base  and the impeller  (the warranty does not become void as a result of this maintenance work).
6. Clean the sealings  carefully to avoid damage and leakage.
7. Reassemble the pedestal  and the suction base  in reverse order. Make sure that the 4 springs  are fitted on the domes  of the pedestal .

**A damaged seal must be replaced.**

**For safety reasons a damaged impeller can only be exchanged by the GARDENA Service Centre.**

Problem	Possible Cause	Remedy
<b>Pump is running, but doesn't deliver water</b>	Air cannot escape, because the pressure line is closed. (Possible kink in the pressure hose.)	→ Open the pressure line (e.g. shut-off valve, delivery units).
	Air in suction foot.	→ Wait for about 3 minutes until the pump has vented; if necessary, turn off and then on again.
<b>All LEDs and  blink alternately</b>	Impeller is blocked.	→ Clean the pedestal and the impeller.
	Suction opening is clogged.	→ Clean the suction opening with a water jet.
<b>All LEDs and  blink alternately</b>	Hose is clogged.	→ Remove the clog from the hose.
	Water level below minimum water level when put into operation.	→ Submerge the pump deeper.
<b>All LEDs and  blink alternately</b>	Sensor is dirty.	→ Clean the sensor.
<b>All LEDs and  blink alternately</b>	Time is exceeded.	→ Place the pump in water within the countdown.
<b>Pump does not start or stops suddenly during operation</b>	Thermal switch has turned the pump off because of overheating.	→ Clean the suction opening. Observe the max. media temperature (35 °C).
	Pumping without electricity.	→ Check fuses and electrical plug connections.

Problem	Possible Cause	Remedy
<b>Pump does not start or stops suddenly during operation</b>	RCD has triggered (residual current).	→ Disconnect the pump and contact the GARDENA Service.
<b>Pump is running but the delivery drops suddenly</b>	Suction opening is clogged.	→ Clean the suction opening with a water jet.
	The pump sucks to the ground (e.g. foil).	→ Place the pump on a suitable hard ground.
	Hose is clogged.	→ Remove the clog from the hose.
<b>Pedestal is not correctly locked in position. Pedestal is stuck</b>	Pedestal is dirty.	→ Clean the pedestal and the impeller.
<b>Button is stuck</b>	Button is dirty.	→ Clean the button.



**NOTE: For any other malfunctions please contact the GARDENA service department. Repairs must only be done by GARDENA service departments or specialist dealers approved by GARDENA.**

## 7. TECHNICAL DATA

Submersible Pump	Unit	Value (Art. 9049)
<b>Rated power</b>	W	860
<b>Mains voltage</b>	V (AC)	230
<b>Mains frequency</b>	Hz	50
<b>Max. delivery capacity</b>	l/h	19,500
<b>Max. pressure / Max. delivery head</b>	bar / m	1.0 / 10
<b>Max. submersion depth</b>	m	7
<b>Min. cut-in height clear water / dirty water (approx.)</b>	mm	11 / 49
<b>Max. cut-in height clear water / dirty water (approx.)</b>	mm	211 / 249
<b>Min. cut-out height clear water / dirty water (approx.)</b>	mm	11 / 49
<b>Max. cut-out height clear water / dirty water (approx.)</b>	mm	174 / 212
<b>Residual water level clear water / dirty water (approx.)</b>	mm	1 / 35
<b>Dirty water with max. particle diameter clear water / dirty water</b>	mm	5 / 35
<b>Minimum water depth for operation clear water / dirty water (approx.)</b>	mm	12 / 47
<b>Power cable</b>	m	10 (H07RN-F)
<b>Weight without cable (approx.)</b>	kg	5.8
<b>Connection thread water outlet</b>	Inch	G 1 1/2"
<b>Connection options</b>	mm / (Inch)	32 mm (1 1/4") 38 mm (1 1/2") 50 mm (2")
<b>Max. media temperature</b>	°C	35

Note: The switch on/switch-off heights and the minimum water level on start-up were calculated without the height differences to be negotiated. Pump heads of approx. 1 m or more may result in longer suction times of up to 1 minute, or higher minimum water levels of up to +5 cm.

## 8. ACCESSORIES

<b>GARDENA Flat Hose Set</b>	10 m 38 mm (1/2") hose with hose clamp.	<b>Art. 5005</b>
<b>GARDENA Hose Clamp</b>	For 32 mm (1 1/4") hoses via the connection nipple.	<b>Art. 7194</b>
<b>GARDENA Hose Clamp</b>	For 38 mm (1 1/2") hoses via the connection nipple.	<b>Art. 7195</b>
<b>GARDENA Hose Clamp</b>	For 51 mm (2") hoses via the connection nipple.	<b>Art. 1796</b>

## 9. SERVICE/WARRANTY

### Service:

Please contact the address on the back page.

### Warranty statement:

In the event of a warranty claim, no charge is levied to you for the services provided.

GARDENA Manufacturing GmbH grants a warranty for all original GARDENA new products for two years from the date of original purchase from the retailer, provided that the devices have been for private use only. This manufacturer's warranty does not apply to products acquired second hand. This warranty includes all significant defects of the product that can be proved to be material or manufacturing faults. This warranty is fulfilled by supplying a fully functional replacement product or by repairing the faulty product sent to us free of charge; we reserve the right to choose between these options. This service is subject to the following provisions:

- The product has been used for its intended purpose as per the recommendations in the operating instructions.
- Neither the purchaser nor a third party has attempted to open or repair the product.
- Only Original GARDENA replacement parts and wear parts have been used for operation.
- Presentation of the receipt.

Normal wear and tear of parts and components (such as blades, blade fixing parts, turbines, light bulbs, V-belts/toothed belts, impellers, air filters, spark plugs), visual changes, wear parts and consumables are excluded from the warranty.

This manufacturer's warranty is limited to replacement and repair of products in accordance with the abovementioned conditions. The manufacturer's warranty does not constitute an entitlement to lodge Other claims against us as a manufacturer, such as for damages. This manufacturer's warranty does **not**, of course, affect statutory and contractual warranty claims against the dealer/retailer.

The manufacturer's warranty is governed by the law of the Federal Republic of Germany.

In case of a warranty claim, please return the faulty product, together with a copy of the receipt and a description of the fault, with postage paid to the service address.

### Consumables:

The impeller is a consumable and is not included in the warranty.

Pumpen-Kennlinien  
 Performance characteristics  
 Courbes de performance  
 Prestatiegrafiek  
 Kapacitetskurva  
 Ydelses karakteristika  
 Pumpun ominaiskäyrä  
 Pumpekarakteristikk  
 Curva di rendimento  
 Curva característica de la bomba

Características de performance  
 Charakterystyka pompy  
 Szivattyú-jelleggörbe  
 Charakteristika čerpadla  
 Charakteristiky čerpadla  
 Χαρακτηριστικό διάγραμμα  
 Характеристика насоса  
 Karakteristika črpalka  
 Obilježja pumpe  
 Karakteristika pumpe

Κριβα χαρακτηριστικι насоса  
 Caracteristică pompi  
 Pompa karakter eğrisi  
 Помпена характеристика  
 Fuqja e pompës  
 Pumba karakteristik  
 Siurblio charakteristinė kreivė  
 Sūkņa raksturlīkne

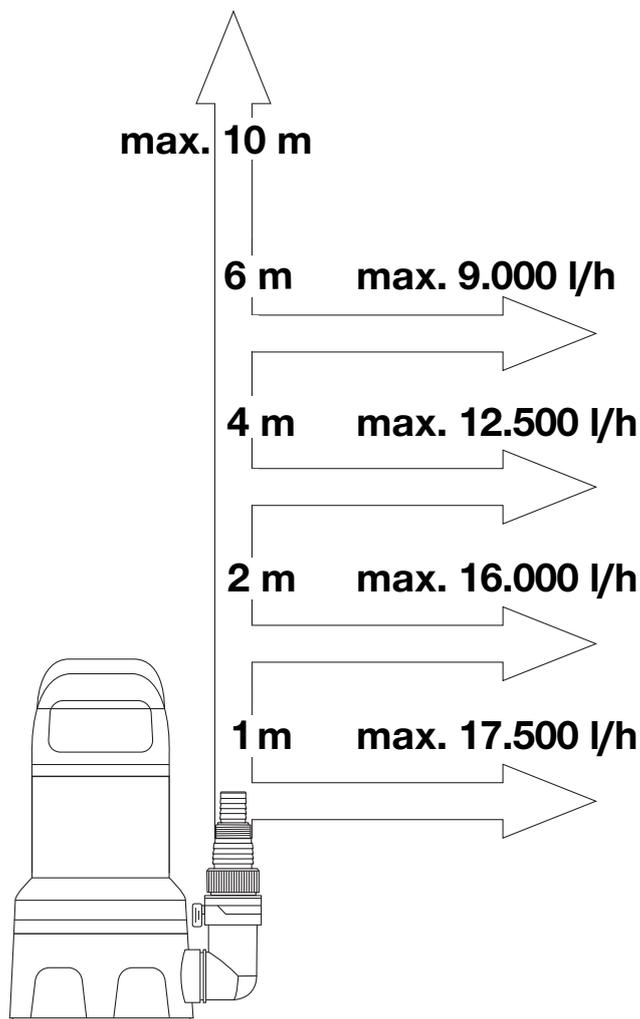
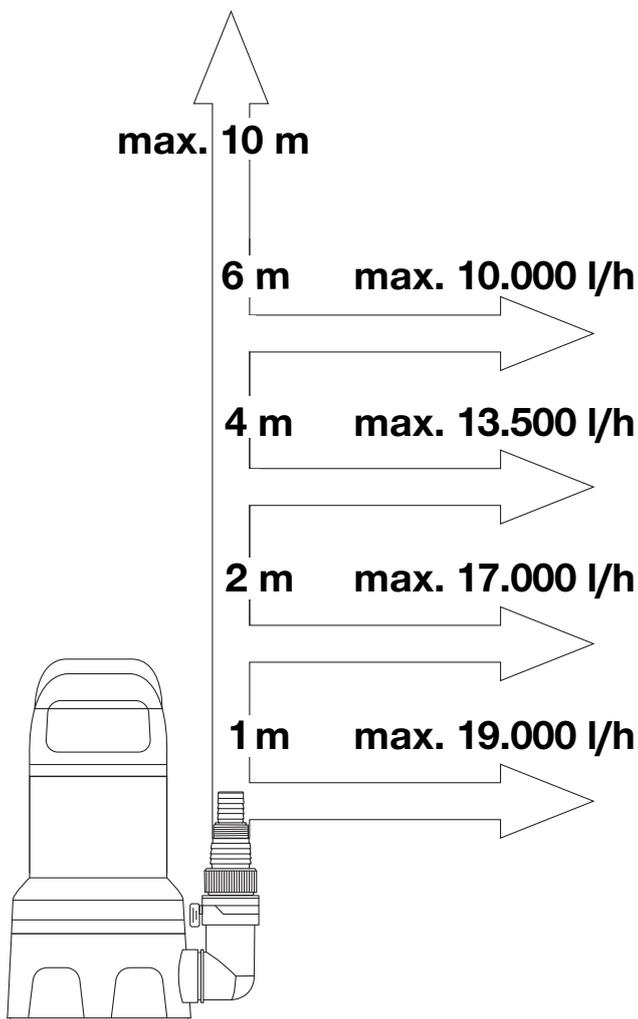
### Art. 9049

Schmutzwasser  
 Dirty water  
 Eaux sales  
 Vuil water  
 Smutsvatten  
 Urent vand  
 Likavesi  
 Skittent vann  
 Acqua sporca  
 Agua residual  
 Água suja  
 Woda brudna  
 Szennyezett víz  
 Špinavá voda

Znečistená voda  
 Λύματα  
 Грязная вода  
 Umazana voda  
 Onečišćena voda  
 Prljava voda  
 Брудна вода  
 Арă murdară  
 Kirli su  
 Мръсна вода  
 Ujë i ndotur  
 Reovesi  
 Purvīnas vanduo  
 Notekūdeņi

Klarwasser  
 Clear water  
 Eaux claires  
 Schoon water  
 Klart vatten  
 Rent vand  
 Puhdasvesi  
 Rent vann  
 Acqua pulita  
 Agua limpia  
 Água limpa  
 Woda czysta  
 Tisztavíz  
 Čistá voda

Čistá voda  
 Καθαρό νερό  
 Чистая вода  
 Čista voda  
 Čista voda  
 Čista voda  
 Чиста вода  
 Арă proaspătă  
 Berrak su  
 Чиста вода  
 Ujë i pastër  
 Selge vesi  
 Švarus vanduo  
 Tīrais ūdens



<p><b>DE Produkthaftung</b> Wir weisen ausdrücklich darauf hin, dass wir in Übereinstimmung mit dem Produkthaftungsgesetz nicht für Schäden haften, die durch unsere Produkte entstehen, wenn diese unsachgemäß und nicht durch einen von uns autorisierten Servicepartner repariert wurden oder wenn keine Original GARDENA Teile oder von uns zugelassene Teile verwendet wurden.</p>
<p><b>EN Product liability</b> In accordance with the German Product Liability Act, we hereby expressly declare that we accept no liability for damage incurred from our products where said products have not been properly repaired by a GARDENA-approved service partner or where original GARDENA parts or parts authorised by GARDENA were not used.</p>
<p><b>FR Responsabilité</b> Conformément à la loi relative à la responsabilité du fait des produits défectueux, nous déclarons expressément par la présente que nous déclinons toute responsabilité pour les dommages résultant de nos produits, si lesdits produits n'ont pas été correctement réparés par un partenaire d'entretien agréé GARDENA ou si des pièces d'origine GARDENA ou des pièces agréées GARDENA n'ont pas été utilisées.</p>
<p><b>NL Productaansprakelijkheid</b> Conform de Duitse wet inzake productaansprakelijkheid verklaren wij hierbij uitdrukkelijk dat wij geen aansprakelijkheid aanvaarden voor schade ontstaan uit onze producten waarbij deze producten niet zijn gerepareerd door een GARDENA-erkende servicepartner of waarbij geen originele GARDENA-onderdelen of onderdelen die door GARDENA zijn goedgekeurd zijn gebruikt.</p>
<p><b>SV Produktansvar</b> I enlighet med tyska produktansvarslagar förklarar vi härmed uttryckligen att vi inte åtar oss något ansvar för skador som orsakas av våra produkter där produkterna inte har genomgått korrekt reparation från en GARDENA-godkänd servicepartner eller där originaldelar från GARDENA eller delar godkända av GARDENA inte använts.</p>
<p><b>DA Produkansvar</b> I overensstemmelse med den tyske produktansvarslav erklærer vi hermed udtrykkeligt, at vi ikke påtager os noget ansvar for skader på vores produkter, hvis de pågældende produkter ikke er blevet repareret korrekt af en GARDENA-godkendt servicepartner, eller hvor der ikke er brugt originale GARDENA-reservedele eller godkendte reservedele fra GARDENA.</p>
<p><b>FI Tuotevastuu</b> Saksan tuotevastuulain mukaisesti emme ole vastuussa laitteiden vaurioista, jos korjauksia ei ole tehnyt GARDENAn hyväksymä huoltoliike tai jos niiden syynä on muiden kuin alkuperäisten GARDENA-varaosien tai GARDENAn hyväksymien varaosien käyttö.</p>
<p><b>IT Responsabilità del prodotto</b> In conformità con la Legge tedesca sulla responsabilità del prodotto, con la presente dichiariamo espressamente che decliniamo qualsiasi responsabilità per danni causati dai nostri prodotti qualora non siano stati correttamente riparati presso un partner di assistenza approvato GARDENA o laddove non siano stati utilizzati ricambi originali o autorizzati GARDENA.</p>
<p><b>ES Responsabilidad sobre el producto</b> De acuerdo con la Ley de responsabilidad sobre productos alemana, por la presente declaramos expresamente que no aceptamos ningún tipo de responsabilidad por los daños ocasionados por nuestros productos si dichos productos no han sido reparados por un socio de mantenimiento aprobado por GARDENA o si no se han utilizado piezas originales GARDENA o piezas autorizadas por GARDENA.</p>
<p><b>PT Responsabilidade pelo produto</b> De acordo com a lei alemã de responsabilidade pelo produto, declaramos que não nos responsabilizamos por danos causados pelos nossos produtos, caso os tais produtos não tenham sido devidamente reparados por um parceiro de assistência GARDENA aprovado ou se não tiverem sido utilizadas peças GARDENA originais ou peças autorizadas pela GARDENA.</p>
<p><b>PL Odpowiedzialność za produkt</b> Zgodnie z niemiecką ustawą o odpowiedzialności za produkt, niniejszym wyraźnie oświadczamy, że nie ponosimy żadnej odpowiedzialności za szkody poniesione na skutek użytkowania naszych produktów, w przypadku gdy naprawa tych produktów nie była odpowiednio przeprowadzana przez zatwierdzonego przez firmę GARDENA partnera serwisowego lub nie stosowano oryginalnych części GARDENA albo części autoryzowanych przez tę firmę.</p>
<p><b>HU Termékszavatosság</b> A németországi termékszavatossági törvénnyel összhangban ezennel nyomatékosan kijelentjük, hogy nem vállalunk felelősséget a termékeinkben keletkezett olyan károkért, amelyek valamely GARDENA által jóváhagyott szervizpartner által nem megfelelően végzett javításból adódtak, vagy amely során nem eredeti GARDENA alkatrészeket vagy a GARDENA által jóváhagyott alkatrészeket használtak fel.</p>
<p><b>CS Odpovědnost za výrobek</b> V souladu s německým zákonem o odpovědnosti za výrobek tímto výslovně prohlašujeme, že nepřijímáme žádnou odpovědnost za poškození vzniklá na našich výrobcích, kdy zmíněné výrobky nebyly řádně opraveny schváleným servisním partnerem GARDENA nebo kdy nebyly použity originální náhradní díly GARDENA nebo náhradní díly autorizované společností GARDENA.</p>
<p><b>SK Zodpovednosť za produkt</b> V súlade s nemeckými právnymi predpismi upravujúcimi zodpovednosť za výrobok týmto výslovné prehlasujeme, že nenesieme žiadnu zodpovednosť za škody spôsobené našimi výrobkami, v prípade ktorých neboli náležite opravy vykonané servisným partnerom schváleným spoločnosťou GARDENA alebo neboli použité diely spoločnosti GARDENA alebo diely schválené spoločnosťou GARDENA.</p>
<p><b>EL Ευθύνη προϊόντος</b> Σύμφωνα με τον γερμανικό νόμο περί Ευθύνης για τα Προϊόντα, με το παρόν δηλώνουμε ρητώς ότι δεν αποδεχόμαστε καμία ευθύνη για τυχόν ζημιές που προκύπτουν από τα προϊόντα μας εάν αυτά δεν έχουν επισκευαστεί ουστά από κάποιον εγκεκριμένο συνεργάτη επισκευών της GARDENA ή εάν δεν έχουν χρησιμοποιηθεί αυθεντικά εξαρτήματα GARDENA ή εξαρτήματα εγκεκριμένα από την GARDENA.</p>
<p><b>SL Odgovornost proizvajalca</b> V skladu z nemškimi zakoni o odgovornosti za izdelke, izrecno izjavljajo, da ne sprejemamo nobene odgovornosti za škodo, ki jo povzročijo naši izdelki, če teh niso ustrezno popravili GARDENINI odobreni servisni partnerji ali pri tem niso bili uporabljeni originalni GARDENINI nadomestni deli ali GARDENINIMI homologiranimi nadomestnimi deli.</p>
<p><b>HR Pouzdanost proizvoda</b> Sukladno njemačkom zakonu o pouzdanosti proizvoda, ovime izričito izjavljujemo kako ne prihvaćamo nikakvu odgovornost za oštećenja na našim proizvodima nastala uslijed neispravnog popravka od strane servisnog partnera kojeg odobrava GARDENA ili uslijed nekorištenja originalnih GARDENA dijelova ili dijelova koje odobrava GARDENA.</p>
<p><b>RO Răspunderea pentru produs</b> În conformitate cu Legea germană privind răspunderea pentru produs, declarăm în mod expres prin prezentul document că nu acceptăm nicio răspundere pentru defecțiunile suferite de produsele noastre atunci când acestea nu au fost reparate în mod corect de un atelier de service partener, aprobat de GARDENA, sau când nu au fost utilizate piese GARDENA originale sau piese autorizate de GARDENA.</p>
<p><b>BG Отговорност за вреди, причинени от стоки</b> Съгласно германския Закон за отговорността за вреди, причинени от стоки, с настоящото изрично декларираме, че не носим отговорност за щети, причинени от нашите продукти, ако те не са били правилно ремонтирани от одобрен от GARDENA сервис или ако не са използвани оригинални части на GARDENA или части, одобрени от GARDENA.</p>
<p><b>ET Tootevastutus</b> Vastavalt Saksamaa tootevastutusseadusele deklareerime käesolevaga selgesõnaliselt, et me ei kanna mingisugust vastutust meie toodetest tingitud kahjude eest, kui need tooted ei ole korrektselt parandatud GARDENA heakskiidetud hoolduspartneri poolt või kui parandamisel ei ole kasutatud GARDENA originaalosi või GARDENA volitatud osi.</p>
<p><b>LT Gaminio patikimumas</b> Mes aiškiai pareiškiame, kad, atsižvelgiant į Vokietijos gaminių patikimumo įstatymą, nepriisiame atsakomybės dėl bet kokios žalos, patirtos dėl mūsų gaminių, jeigu jie buvo netinkamai taisomi arba jų dalys buvo pakeistos neoriginaliomis GARDENA dalimis ar nepatvirtintomis dalimis, arba jeigu remonto darbai buvo atliekami ne GARDENA techninės priežiūros centro specialistų.</p>
<p><b>LV Atbildība par produkcijas kvalitāti</b> Saskaņā ar Vācijas likumu par atbildību par produkcijas kvalitāti ar šo mēs paziņojam, ka neuzņemamies atbildību par bojājumiem, kas radušies, lietojot mūsu izstrādājumus, kuru remontu nav veicis uzņēmuma GARDENA apstiprināts apkopes partneris vai kuru remontam netika izmantotas oriģinālās GARDENA detaļas vai detaļas, kuru lietošanu apstiprinājis uzņēmums GARDENA.</p>



**Deutschland / Germany**

GARDENA  
Manufacturing GmbH  
Central Service  
Hans-Lorenser-Straße 40  
D-89079 Ulm  
Produktfragen:  
(+49) 731 490-123  
Reparaturen:  
(+49) 731 490-290  
service@gardena.com  
http://www.gardena.com

**Albania**

KRAFT SHPK  
Autostrada Tirane-Durres  
Km 7  
1051 Tirane

**Argentina**

ROBERTO C. RUMBO S.R.L.  
Predio Norlog  
Lote 7  
Benavidez. ZC:1621  
Buenos Aires  
ventas@rumbosrl.com.ar

**Australia**

Husqvarna Australia Pty. Ltd.  
Locked Bag 5  
Central Coast BC  
NSW 2252  
Phone: (+61) (0) 2 4352 7400  
customer.service@  
husqvarna.com.au

**Austria / Österreich**

Husqvarna Austria GmbH  
Industriezeile 36  
4010 Linz  
Tel.: (+43) 732 77 01 01-485  
service.gardena@  
husqvarnagroup.com

**Azerbaijan**

Firm Progress  
a. Aliyev Str. 26A  
1052 Baku

**Belarus**

Private Enterprise  
"Master Garden"  
Minsk  
Sharangovich str., 7a  
Phone: (+375) 17 257-00-33  
Mob.: (+375) 29 676-16-09  
mg@mastergarden.by

**Belgium**

Husqvarna Belgium nv  
Gardena Division  
Leuvensesteenweg 542  
Planet II E  
1930 Zaventem  
België

**Bosnia / Herzegovina**

SILK TRADE d.o.o.  
Industrijska zona Bukva bb  
74260 Tešanj

**Brazil**

Husqvarna do Brasil Ltda  
Av. Francisco Matarazzo,  
1400 - 19º andar  
São Paulo - SP  
CEP: 05001-903  
Tel: 0800-112252  
marketing.br.husqvarna@  
husqvarna.com.br

**Bulgaria**

AGROLAND България АД  
бул. 8 Декември, №13  
Офис 5  
1700 Студентски град  
София  
Тел.: (+359) 2466 69 10  
info@agroland.eu

**Canada / USA**

GARDENA Canada Ltd.  
100 Summerlea Road  
Brampton, Ontario L6T 4X3  
Phone: (+1) 905 792 93 30  
info@gardenacanada.com

**Chile**

REPRESENTACIONES  
JCE S.A.  
Av. Del Valle Norte 857,  
Piso 4  
Santiago RM  
Phone: (+56) 2 24142560  
contacto@jce.cl

**China**

Husqvarna (Shanghai)  
Management Co., Ltd.  
富世华 (上海) 管理有限公司  
3F, Benq Square B,  
No207, Song Hong Rd.,  
Chang Ning District,  
Shanghai  
PRC. 200335  
上海市长宁区淞虹路207号明  
基广场B座3楼, 邮编: 200335

**Colombia**

Husqvarna Colombia S.A.  
Calle 18 No. 68 D-31, zona  
Industrial de Montevideo  
Bogotá, Cundinamarca  
Tel. 571 2922700 ext. 105  
jairo.salazar@  
husqvarna.com.co

**Costa Rica**

Compania Exim  
Euroiberoamericana S.A.  
Los Colegios, Moravia,  
200 metros al Sur del Colegio  
Saint Francis - San José  
Phone: (+506) 297 68 83  
exim\_euro@racsa.co.cr

**Croatia**

Husqvarna Austria GmbH  
Industriezeile 36  
4010 Linz  
Tel.: (+43) 732 77 01 01-485  
service.gardena@  
husqvarnagroup.com

**Cyprus**

Med Marketing  
17 Digeni Akrita Ave  
P.O. Box 27017  
1641 Nicosia

**Czech Republic**

Husqvarna Česko s.r.o.  
Türkova 2319/5b  
149 00 Praha 4 - Chodov  
Bezplatná infolinka:  
800 100 425  
servis@cz.husqvarna.com

**Denmark**

GARDENA DANMARK  
Lejrvvej 19, st.  
3500 Værløse  
Tlf.: (+45) 7026 4770  
husqvarna@husqvarna.dk  
www.gardena.com/dk

**Dominican Republic**

BOSQUESA, S.R.L  
Carretera Santiago Licey  
Km. 5 ½  
Esquina Copal II.  
Santiago  
Dominican Republic  
Phone: (+809) 736-0333  
joserbosquesa@claro.net.do

**Ecuador**

Husqvarna Ecuador S.A.  
Arupos E1-181 y 10 de  
Agosto Quito, Pichincha  
Tel. (+593) 22800739  
francisco.jacome@  
husqvarna.com.ec

**Estonia**

Husqvarna Eesti OÜ  
Valdeku 132  
EE-11216 Tallinn  
info@agardena.ee

**Finland**

Oy Husqvarna Ab  
Gardena Division  
Lautatarhankatu 8 B/PL 3  
00581 HELSINKI  
www.gardena.fi

**France**

Husqvarna France  
9/11 Allée des pierres mayettes  
92635 Gennevilliers Cedex  
France  
http://www.gardena.com/fr  
N° AZUR: 0 810 00 78 23  
(Prix d'un appel local)

**Georgia**

Transporter LLC  
113b Belialshvili street  
0159 Tbilisi, Georgia

**Great Britain**

Husqvarna UK Ltd  
Preston Road  
Aycliffe Industrial Park  
Newton Aycliffe  
County Durham  
DL5 6UP  
info.gardena@  
husqvarna.co.uk

**Greece**

Π. ΠΑΠΑΔΟΠΟΥΛΟΣ ΑΕΒΕ  
Λεωφ. Αθηνών 92  
Αθήνα  
Τ.Κ.104 42  
Ελλάδα  
Τηλ. (+30) 210 51 93 100  
info@papadopoulos.com.gr

**Hungary**

Husqvarna Magyarország Kft.  
Ezred u. 1-3  
1044 Budapest  
Telefon: (+36) 1 251-4161  
vevoszolgalat.husqvarna@  
husqvarna.hu

**Iceland**

BYKO ehf.  
Bildshöfoa 20  
110 Reykjavik

**Ireland**

Husqvarna UK Ltd  
Preston Road  
Aycliffe Industrial Park  
Newton Aycliffe  
County Durham  
DL5 6UP  
info.gardena@  
husqvarna.co.uk

**Italy**

Husqvarna Italia S.p.A.  
Via Santa Vecchia 15  
23868 VALMADRERA (LC)  
Phone: (+39) 0341.203.111  
assistenza.italia@  
it.husqvarna.com

**Japan**

Husqvarna Zenoah Co., Ltd.  
1-9 Minamidai  
Kawagoe  
350-1165 Saitama  
gardena-jp@  
husqvarnagroup.com

**Kazakhstan**

LAMED Ltd.  
155/1, Tazhibayevoy Str.  
050060 Almaty  
IP Schmidt  
Abayavenue 3B  
110 005 Kostanay

**Korea**

Kyung Jin Trading CO.,LTD.  
107-4, SunDuk Bld.,  
YangJae-dong,  
Seocho-gu,  
Seoul, (zipcode: 137-891)  
Phone: (+82) (0)2 574-6300

**Latvia**

Husqvarna Latvija SIA  
Ulbrokas 19A  
LV-1021 Riga  
info@gardena.lv

**Lithuania**

UAB Husqvarna Lietuva  
Ateities pl. 77C  
LT-52104 Kaunas  
info@gardena.lt

**Luxembourg**

Magasins Jules Neuberg  
39, rue Jacques Stas  
Luxembourg-Gasperich 2549  
Case Postale No. 12  
Luxembourg 2010  
Phone: (+352) 40 14 01  
api@neuberg.lu

**Mexico**

AFOSA  
Av. Lopez Mateos Sur # 5019  
Col. La Calma 45070  
Zapopan, Jalisco  
Mexico  
Phone: (+52) 33 3818-3434  
icornejo@afosa.com.mx

**Moldova**

Convel S.R.L.  
290A Muncesti Str.  
2002 Chisinau

**Netherlands**

Husqvarna Nederland B.V.  
GARDENA Division  
Postbus 50131  
1305 AC ALMERE  
Phone: (+31) 36 521 00 10  
info@gardena.nl

**Neth. Antilles**

Jonka Enterprises N.V.  
Sta. Rosa Weg 196  
P.O. Box 8200  
Curaçao  
Phone: (+599) 9 767 66 55  
pgm@jonka.com

**New Zealand**

Husqvarna New Zealand Ltd.  
PO Box 76-437  
Manukau City 2241  
Phone: (+64) (0) 9 9202410  
support.nz@husqvarna.co.nz

**Norway**

Husqvarna Norge AS  
Gardena Division  
Trøskenveien 36  
1708 Sarpsborg  
info@gardena.no

**Peru**

Husqvarna Perú S.A.  
Jr. Ramón Cárcamo 710  
Lima 1  
Tel: (+51) 1 3320 400 ext. 416  
juan.remuzgo@  
husqvarna.com

**Poland**

Husqvarna  
Poland Spółka z o.o.  
ul. Wysockiego 15 b  
03-371 Warszawa  
Phone: (+48) 22 330 96 00  
gardena@husqvarna.com.pl

**Portugal**

Husqvarna Portugal, SA  
Lagoa - Albarraque  
2635 - 595 Rio de Mouro  
Tel.: (+351) 21 922 85 30  
Fax : (+351) 21 922 85 36  
info@gardena.pt

**Romania**

Madex International Srl  
Soseaua Odaii 117-123,  
RO 013603 București, S1  
Phone: (+40) 21 352.76.03  
madex@ines.ro

**Russia / Россия**

ООО „Хускварна“  
141400, Московская обл.,  
г. Химки,  
улица Ленинградская,  
владение 39, стр.6  
Бизнес Центр  
„Химки Бизнес Парк“,  
помещение ОВ02\_04  
http://www.gardena.ru

**Serbia**

Domel d.o.o.  
Autoput za Novi Sad bb  
11273 Belgrade  
Phone: (+381) 1 18 48 88 12  
miroslav.jejina@domel.rs

**Singapore**

Hy-Ray PRIVATE LIMITED  
40 Jalan Pemimpin  
#02-08 Tat Ann Building  
Singapore 577185  
Phone: (+65) 6253 2277  
shiyiing@hyray.com.sg

**Slovak Republic**

Husqvarna Česko s.r.o.  
Türkova 2319/5b  
149 00 Praha 4 - Chodov  
Bezplatná infolinka: 800 154 044  
servis@sk.husqvarna.com

**Slovenia**

Husqvarna Austria GmbH  
Industriezeile 36  
4010 Linz  
Tel.: (+43) 732 77 01 01-485  
service.gardena@  
husqvarnagroup.com

**South Africa**

Husqvarna South Africa (Pty) Ltd  
Postnet Suite 250  
Private Bag X6,  
Cascades, 3202, South Africa  
Phone: (+27) 33 846 9700  
info@gardena.co.za

**Spain**

Husqvarna España S.A.  
Calle de Rivas nº 10  
28052 Madrid  
Phone: (+34) 91 708 05 00  
atencioncliente@gardena.es

**Suriname**

Deto Handelmaatschappij N.V.  
Kernkampweg 72-74  
P.O.Box: 12782  
Paramaribo - Suriname  
South America  
Phone: (+597) 438050  
www.deto.sr

**Sweden**

Husqvarna AB/  
GARDENA Sverige  
Drottninggatan 2  
561 82 Huskvarna Sverige

**Switzerland / Schweiz**

Husqvarna Schweiz AG  
Consumer Products  
Industriestrasse 10  
5506 Mägenwil  
Phone: (+41) (0) 62 887 37 90  
info@gardena.ch

**Turkey**

Dost Bahçe Diş Ticaret  
Mümessillik A.Ş  
Yunus Mah. Adil Sok. No:3  
Ic Kapi No: 1 Kartal  
34873 Istanbul  
Phone: (+90) 216 38 93 939  
info@dostbahce.com.tr

**Ukraine / Україна**

ТОВ «Хускварна Україна»  
вул. Васильківська, 34,  
офіс 204-г  
03022, м. Київ  
Тел. (+38) 0 800 504 804  
info@gardena.ua

**Uruguay**

FELI SA  
Entre Ríos 1083 CP 11800  
Montevideo - Uruguay  
Tel: (+598) 22 03 18 44  
info@felisa.com.uy

**Venezuela**

Corporación Casa y Jardín C.A.  
Av. Caroní, Edif. Trezmen, PB.  
Colinas de Bello Monte.  
1050 Caracas.  
Tlf: (+58) 212 992 33 22  
info@casayjardin.net.ve

9049-20.960.01/0421  
© GARDENA Manufacturing GmbH  
D-89079 Ulm  
http://www.gardena.com