GARDENA®

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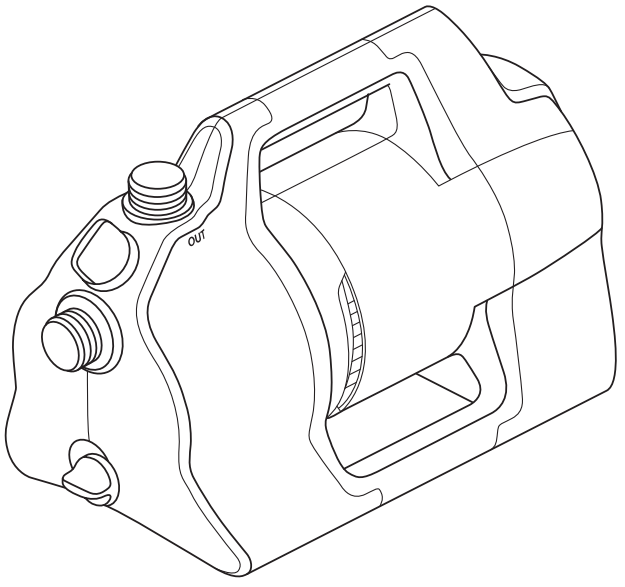
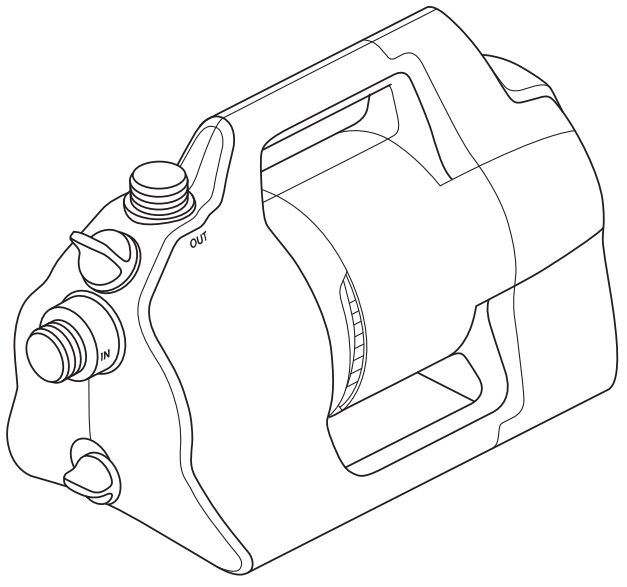
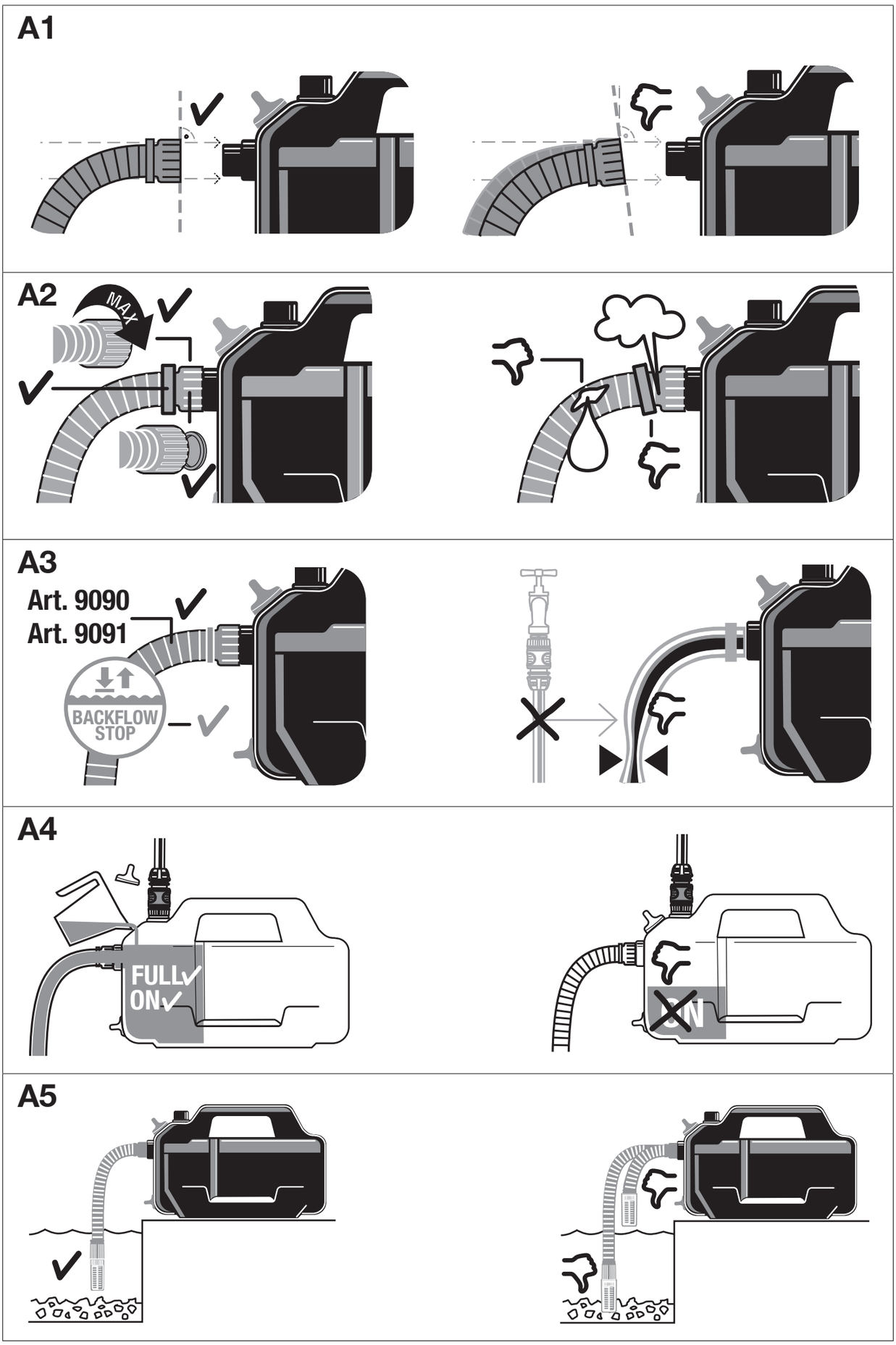




4100 Silent	**Art. 9050**
4200 Silent	**Art. 9054**
4300 Silent	**Art. 9056**

Operator's manual
Garden pumps


A1
A2
MAX
A3
Art. 9090
Art. 9091
BACKFLOW
STOP
A4
FULL✓
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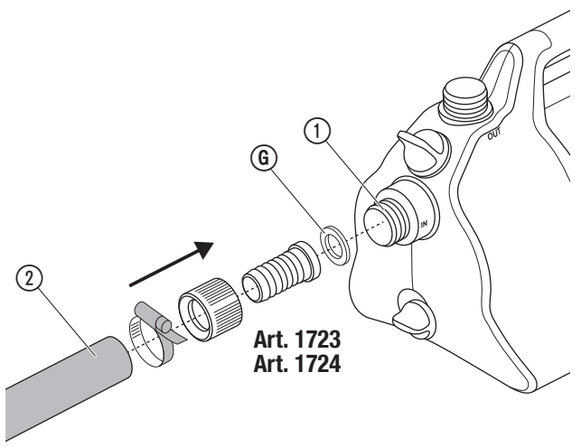
ON
A5

A6



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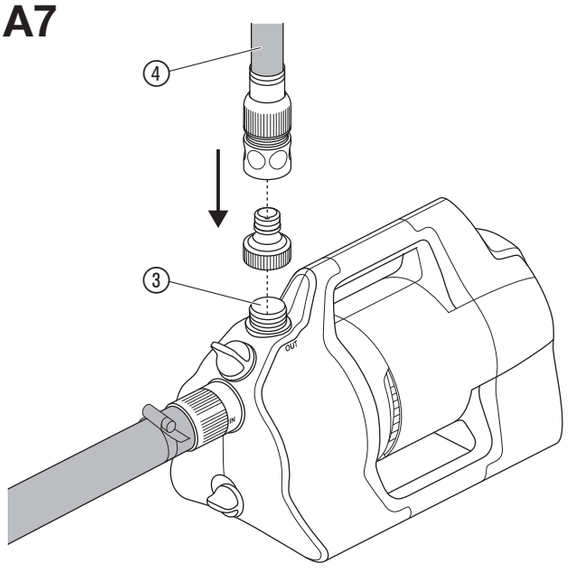
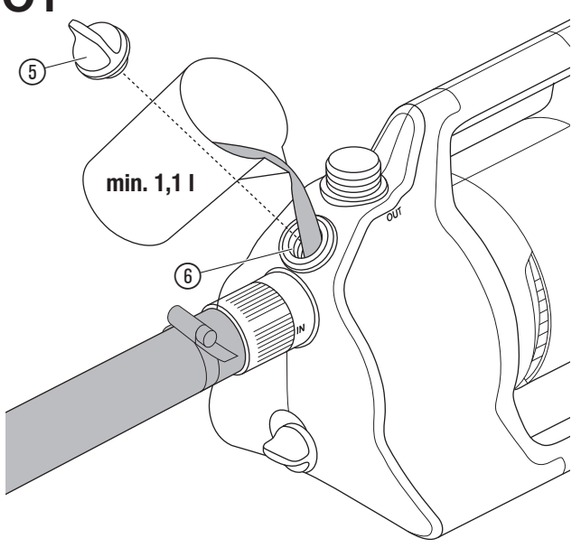


O1



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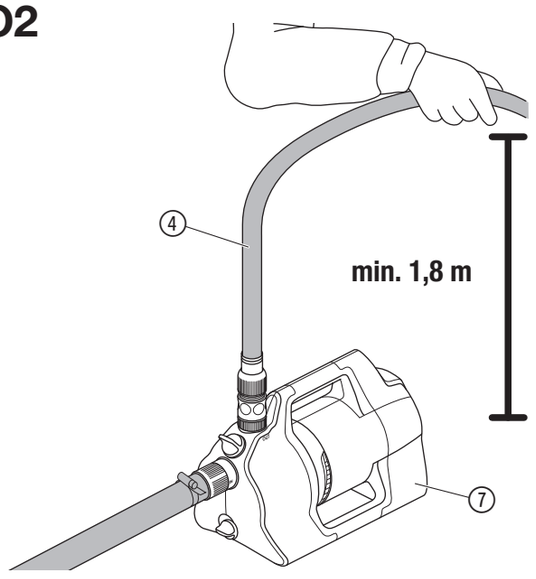
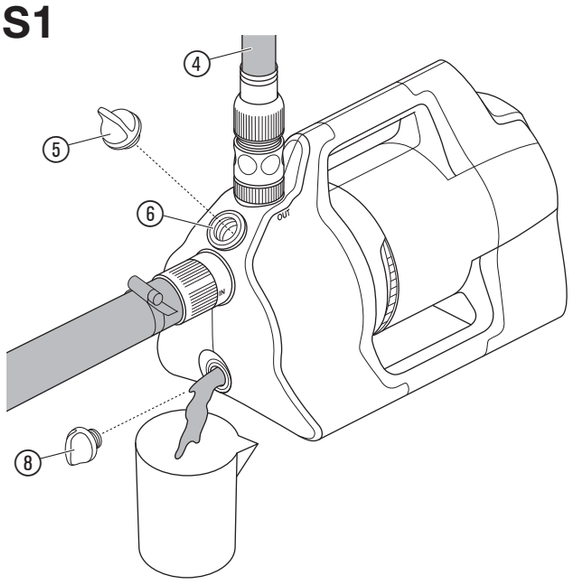
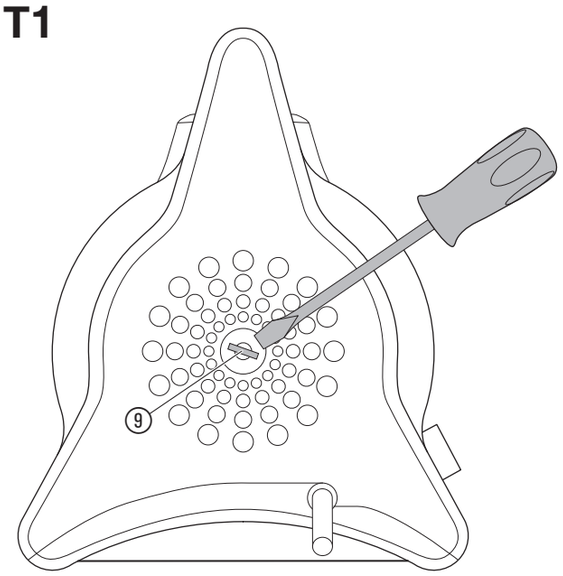


S1



T1



Garden pumps
4100 Silent/4200 Silent/4300 Silent

Translation of the original instructions.

1. SAFETY WARNINGS

1.1. Explanation of the symbols

Read operator's manual.

1.2. General safety warnings

1.2.1. General pump safety warnings

WARNING!

Electric shock!

Risk of injury due to electric current.

→ The product must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.

→ Disconnect the product from the mains before you put it into storage, maintain it or replace parts. Thereby the disconnected socket must be in the visual range.

1.2.2. Garden pump safety warnings

1.2.2.1 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.

1.2.2.2 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.

1.3. Additional safety warnings

1.3.1. Intended use

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 shall not be carried out by children unless they aged 8 years and above and supervision.

The use of this product by young people under the age of 16 is not recommended.

The **GARDENA Garden pump** is intended to pump ground water and rain water, tap water and water containing chlorine in private domestic gardens and allotments.

The product is not intended for long term use (professional use).

The product is not intended for continuous running.

1.3.1.1 Liquids to be pumped:

The **GARDENA Garden Pump** must only be used to pump water.

DANGER!

Risk of injury!

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

1.3.1.2 Pressure amplification:

The inlet pressure must be protected by an adjustable pressure relief valve. When the pump is used for pressure amplification, the maximum permissible internal pressure must not exceed 6 bar. The maximum inlet pressure is therefore:

GARDENA Garden pump 4100 Art. 9050	→ Max. 2.4 bar
GARDENA Garden pump 4200 Art. 9054	→ Max. 2.1 bar
GARDENA Garden pump 4300 Art. 9056	→ Max. 1.7 bar

1.3.2. Additional electrical safety warnings

DANGER!

Risk of cardiac arrest!

This product generates an electromagnetic field while it operates. This electromagnetic field may affect the functionality of active or passive medical implants (e. g. pacemakers), which may result in serious injury or death.

→ Consult your doctor and the manufacturer of your implant before using this product.

→ After using the product, disconnect the mains plug from the mains socket.

The pump must be installed in a stable and flood-proof location and protected against falling into the water. Take care that the pump cannot fall into water. Position the pump at a safe distance (min. 2 m) from the liquid to be pumped. As an additional safety device an authorised safety switch can be used.

→ Ask your electrician for his advice.

→ 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.

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

→ Do not use the power cable for carrying the pump or for unplugging.

→ Place the pump in a flood-proof location.

→ 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 must not be used.

→ In the event of damage, have the pump checked by GARDENA Service.

→ Electrical changes are only conducted by an electrical specialist.

→ Before filling, dismantling, maintenance disconnect the mains.

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

1.3.2.1 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 mm²
230 – 240 V/50 Hz	20 – 50 m	2.5 mm²

1.3.3. Additional personal safety warnings

DANGER!

Risk of suffocation!

Small parts can be easily swallowed.

→ Keep toddlers away when you assemble the product.

DANGER!

Risk of injury from hot water!

Pumped water is under pressure and when it hits the body or eyes directly can cause injury.

If the pump is operated for prolonged periods of time (> 5 min.) with the delivery side closed, the water in the pump may heat up so that there is a risk of scalding yourself with hot water.

→ Let the pump operate for max. 5 minutes against the closed pressure side or with missing water supply.

If the water supply on the intake side of the pump fails, the water in the pump can heat up so that if water emerges, injuries could be caused by the hot water.

→ Disconnect the pump from the mains and let the water cool.

→ Do not open any caps and screw connections when the water is hot.

→ Before restarting, secure the water supply on the suction side and fill the pump completely with water.

If hoses or pipes are exposed to the sun, they can become very hot.

Do not use the product with loose hair.

When connecting the pump to the water supply system, the country-specific sanitary regulations must be observed to prevent water not of drinking water quality being drawn back in.

→ Consult a specialist for sanitary installations.

In order to avoid dry-running of the pump, take care that the end of the suction hose is always submerged into the liquid.

→ Before each operation, fill the pump with water up to the overflow (min. 1.1 l)!

→ When filling the pump with water, make sure that no hoses or consumers are connected to the pump and that the pump is generally in a horizontal position.

→ Make sure that the hoses are laid without kinks.
→ Sand and other abrasive substances cause increased wear and reduce the pump's output.
→ Use a pump pre-filter for pumping sandy liquids.
→ Pumping dirty water, e. g. stones, pine needles etc., can cause damage to the pump.
→ Do not pump dirty water.
The minimum flow rate is 90 l/h (1.5 l/min). Connection devices with a lower flow rate must not be operated.

2. ASSEMBLY

DANGER!
Risk of injury!
Risk of injury due to accidental starting.
→ Unplug the plug of the mains cable from the mains socket.

2.1. Installation site

- When installing below the water level, a shut-off device must be installed to prevent unwanted water loss.
- The installation site must be horizontal, solid and dry and allow the pump to stand securely.
- It must be at a distance of at least 2 m from the water.
- The pump must be installed in a flood-proof location with sufficient ventilation in the area of the ventilation slots.
- The distance to the walls must be at least 5 cm.
- Dirt (e. g. sand or soil) must not be sucked in through the ventilation slots.

2.2. To connect the hose to the suction side [Fig. A6]

The connector on the suction side ① is equipped with a 33.3 mm (G 1") external thread.

The connection piece on the suction side may only be tightened by hand [Fig. A2].

In order to reduce the suction time, it is advisable to use a suction hose with backflow preventer avoiding automatic draining of the suction hose when the pump has been switched off [Fig. A3].

Sucking in air in the suction system can lead to functional failure and increased noise generation.

→ Connect the suction system carefully.
→ Check the gasket regularly and replace it if necessary.

Don't use any hose quick connection system fittings on the suction side.

A vacuum-resistant suction hose must be used on the suction side:

- e. g. the **GARDENA Suction Unit Art. 9090/9091/9092**
- or the **GARDENA Bore Hole Suction Hose Art. 1729**.
- Connect suction hoses ② without threaded connection via a suction hose connection piece (e. g. **Art. 1723/1724**) to the connection of the suction side and screw it airtight.

2.2.1 There are 2 types of connection systems

Intended for flat gasket

No thread sealing tape is required.

→ Make sure that the flat gasket Ⓖ is inserted in the suction hose connection piece and is undamaged.

Intended for thread sealing tape

No flat gasket is required.

An unsuitable sealing system can lead to leaks.

→ Use the sealing system intended for this purpose.

1. Make sure that the flat gasket Ⓖ is inserted in the suction hose connection piece.
2. Screw the vacuum-resistant suction hose ② airtight on the connector on the suction side ①. The connection piece must be placed straight on [Fig. A1].
3. Lay the suction hose ② straight and free of twists.
4. For suction heights exceeding 3 m: Fix the suction hose ② additionally. (e. g. by fastening it to a wooden post).
   Therefore, the pump is relieved of the weight of the suction hose.

2.3. To connect the hose to the pressure side [Fig. A7]

The connector on the pressure side ③ is equipped with a 33.3 mm (G 1") external thread.

The connection pieces on the pressure side may only be tightened by hand.

Optimised use of the pump capacity is achieved by connecting 19 mm (3/4") hoses with:

- e. g. the **GARDENA Pump Connection Set Art. 1752**
- or by connecting 25 mm (1") hoses with the **GARDENA Quick Thread Coupling with female thread Art. 7109/Quick Coupling Hose Connector Art. 7103**.

Hold or fix the pressure hose vertically to avoid kinking of the pressure hose at the vertical pump outlet.

Lay the hose flat on the ground; avoid u-shaped elevations of the hose and coiling it. In order to allow the air to escape optimally, lay out the pressure hose completely and give it a rising course as seen from the pump.

→ Connect the pressure hose ④ with the connector on the pressure side ③.

2.3.1 To connect the pressure hose via the GARDENA quick connection system

19 mm (3/4")/ 16 mm (5/8") and 13 mm (1/2") hoses can be connected via the GARDENA Connection System.

Hose diameter	Pump connection	
13 mm (1/2")	GARDENA Pump Connection Set	Art. 1750
16 mm (5/8")	GARDENA Tap Connector GARDENA Hose Connector	Art. 18202 Art. 18216
19 mm (3/4")	GARDENA Pump Connection Set	Art. 1752

2.3.2 Only for Art. 9056: Parallel connection of pressure hoses:

When connecting more than one pressure hose in parallel, we recommend the use of:

- e. g. the **GARDENA 2- or 4-Channel Water Distributor Art. 8193/8194**
- or the **GARDENA Twin-Tap Connector Art. 940**.

These can be screwed directly onto the connector of the pressure side ③.

3. OPERATION

DANGER!
Risk of injury!
Risk of injury due to accidental starting.
→ Unplug the plug of the mains cable from the mains socket.

3.1. To start/To stop the pump [Fig. O1/O2]

CAUTION!
Dry-Running of the pump!
Make sure that the pump is filled with water up to the overflow (min. 1.1 l) before each starting procedure.

3.1.1 To start the pump

1. Connect the suction hose (**In**).
2. Disconnect the pressure hose (**Out**).
3. Unscrew the screw connection ⑤ on the filling opening ⑥ by hand.
4. Slowly fill in at least 1.1 l of water via the filler opening ⑥ until a stable water level is reached at the level of the suction side connection [Fig. A4].
5. If a non-return valve is used: Fill the suction hose with water.
   This speeds up the suction process.
6. Empty the residual water in the pressure hose ④ before connecting.
   This allows the air to escape during the suction process.
7. After filling the pump: Connect the pressure hose (**Out**) to the pump.
8. Tighten the screw connection ⑤ on the filling opening ⑥ by hand (do not use pliers).
9. Open any shut-off valves in the pressure line (connection devices, water stop, etc.). All consumers must be opened to the max. possible position.

10. Insert the plug of the mains cable into a mains socket.
11. For high suction heights: Lift and hold the pressure hose ④ at least 1.8 m vertically above the pump during the suction process.
12. Push the On/Off switch ⑦ to the position **On**.
    The pump starts (the On/Off switch lights) and pumps the water after the suction process.

    The suction process can take up to 5 minutes.

If the pump does not pump water after 5 minutes

1. Push the On/Off switch ⑦ to the position **Off**.
   The pump stops.
2. Let the pump cool down.
3. Search in the ***6.2 Troubleshooting table*** for possible causes.
4. Start the pump again (see „3.1.1 To start the pump“).

3.1.2 To stop the pump

→ Push the On/Off switch ⑦ to the position **Off**.
The pump stops.

3.2. Hints to pump

3.2.1 General tip on suction

The specified maximum self-priming height is only reached when the pump is filled to the overflow via the **filling opening** and the pressure hose ④ is held upwards during the priming process so that no water can escape from the pump via the pressure hose ④. Fill the pump before hoses, fixed piping etc. are connected to the pump on the pressure side. This ensures that the pump can be completely filled with water (1.1 l) (air can escape).
The pump is to be filled with 1.1 l of water.

3.2.2 Silent operation

The pump is silent. This advantage can only be maintained with the correct installation:

→ Choose a low-vibration base (e. g. do not place on metal sheets or plastic tanks).

3.2.3 Assembly of the prefilter

If a prefilter is too long, it can be assembled in another position (e. g. horizontally) instead of in the vertical position still below.

4. MAINTENANCE

DANGER!
Risk of injury!
Risk of injury due to accidental starting.
→ Unplug the plug of the mains cable from the mains socket.

4.1. To clean the Pump:

DANGER!
Risk of injury!
Risk of injury and risk of damage to the product.
→ Do not clean the product with water or 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.

The airflow slots must always be clean.

1. Clean the pump housing with a damp cloth.
2. Clean the airflow slots with a soft brush (do not use sharp objects).

4.2. To flush the pump

After pumping chlorinated water, the pump must be flushed.

1. Pump through lukewarm water (max. 35 °C), possibly adding a mild cleaning agent (e. g. detergent) until the pumped water runs clear.
2. Dispose of the residues in accordance with local waste disposal regulations.

5. STORAGE

To put into storage [Fig. S1]

CAUTION!
Damage to the pump due to frost!
→ Store the pump in a frost-free place.

The product must be stored away from children.

1. Unplug the plug of the mains cable from the mains socket.
2. Close any shut-off valves in the suction line.
3. Open any shut-off valves in the pressure line (accessories, water stop, etc.).
   Therefore the pressure line is depressurized.
4. Unscrew the screw fitting ⑤ of the filler neck ⑥ and the water drain screw ⑧ by hand.
   Therefore the pump is drained.
5. Tilt the pump in the direction of the drain (approx. 80°) so that the pump empties completely.
6. Unscrew the suction hose and the pressure hose.
7. Tighten the screw connection ⑤ on the filling opening ⑥ and the water drain screw ⑧ by hand (do not use pliers).
8. Clean the pump (see „4. MAINTENANCE“).
9. Store the pump in a dry, enclosed and frost-free place.

6. TROUBLESHOOTING

DANGER!
Risk of injury!
Risk of injury due to accidental starting.
→ Unplug the plug of the mains cable from the mains socket.

6.1. To loosen the impeller [Fig. T1]

An impeller blocked by dirt can be loosened.

→ Turn the shaft of the impeller ⑨ clockwise with an insulated screwdriver.
Therefore the blocked impeller is loosened.

6.2. Troubleshooting table

Problem	Possible Cause	Remedy
Pump is running, but the suction action doesn't take place	Leaky or damaged suction line [Fig. A2].	→ Check the suction line for damage and seal so is airtight.
	Pump sucks in air at a connection point [Fig. A2].	→ Seal the suction side connections airtight.
	No water available in the cistern, water tank, water pipe, etc.	→ Make sure that the water supply is on the suction side.
	Pump was not filled with water [Fig. A4].	→ Fill the pump (see „3.1.1 To start the pump“).
	Water escapes during the suction process via the pressure hose.	1. Fill the pump again. 2. Hold up the pressure hose. 3. Start the pump again (see „3.1.1 To start the pump“).
Pump is running, but the suction action doesn't take place	Absolutely vacuum-resistant connection is achieved by using GARDENA Suction Hoses (see „8. ACCESSORIES/SPARE PARTS“).	
	Screw fitting on the filler neck is leaking [Fig. A2].	→ Check the seal (replace if necessary) and tighten the screw fitting by hand (do not use pliers).
	Air cannot escape, since the delivery line is closed or remaining water is in the pressure hose.	→ Open any shut-off valves (e. g. nozzle) in the delivery line, or drain the pressure hose.

Problem	Possible Cause	Remedy
	Air cannot escape because the pressure hose is coiled.	1. Lay out the pressure hose straight along its entire length. 2. Lay the hose from the pump outlet upwards. 3. Do not kink the pressure hose at the pump outlet. 4. Open all consumers maximum.
	Suction time of 5 min. was not waited for.	→ Wait up to 5 minutes for the pump to pump water.
	Suction filter or backflow preventer in the suction hose are clogged.	→ Clean the suction filter or the back flow preventer.
	The end of the suction hose is not in the water [Fig. A5].	→ Submerge the end of the suction hose deeper in the water.
	Suction height is too high [Fig. A5].	→ Reduce the suction height.
	In case of any other difficulties concerning the suction action, use GARDENA Suction Hoses with Backflow Preventer (see „8. ACCESSORIES/SPARE PARTS“). Fill the pump with water before starting it.	
Pump does not start, or stops suddenly during operation	Thermal switch has turned the pump off because of overheating.	→ Let the pump cool down, empty the pump and fill it again. → Observe the max. media Temperature (35 °C).
	No power supply to the pump.	→ Check the fuses and electrical plug connections.
	RCD has triggered (residual current).	→ Unplug the plug from the mains socket and contact the GARDENA Service.
	Pump is not switched on.	→ Push the On/Off switch to the position **On**.
Pump is running, but the delivery drops suddenly	The end of the suction hose is not in the water [Fig. A5].	→ Submerge the end of the suction hose deeper in the water.
	Suction filter or backflow preventer in the suction hose are clogged.	→ Clean the suction filter or the back flow preventer.
	No water available in the cistern, water tank, water pipe, etc.	→ Make sure that the water supply is on the suction side.
	Suction line is leaking [Fig. A2].	→ Eliminate the leak.
	Impeller is blocked.	→ Loosen the impeller.
	Pressure hose is kinked.	→ Lay the pressure hose without kinks and do not kink the pressure hose at the pump outlet.

NOTE:

Repairs must only be done by the GARDENA service departments or specialist dealers approved by GARDENA.

→ For any other malfunctions please contact the GARDENA service department.

7. TECHNICAL DATA

Garden pump	Unit	Value (Art. 9050)	Value (Art. 9054)	Value (Art. 9056)
Rated power	W	550	600	650
Mains voltage	V (AC)	220 – 240	220 – 240	230
Mains frequency	Hz	50	50	50
Max. delivery capacity	l/h	4100	4200	4300
Max. pressure / Max. delivery head	bar / m	3.6 36	3.9 39	4.3 43
Max. self-priming suction height	m	8	8	8
Permitted internal pressure (delivery side)	bar	6	6	6
Power cable	m	1.5 (H07RN-F)	1.5 (H07RN-F)	1.5 (H07RN-F)
Weight without cable (approx.)	kg	5.6	5.8	6.3
Sound pressure level L_{pA} Distance: 1 m 5 m 10 m	dB	 64 50 44	 63 49 43	 65 51 45
Sound power level L_{WA} [1]: measured/guaranteed Uncertainty k_{WA}	dB (A)	73 / 75 2.52	71 / 74 2.58	73 / 75 2.20
Max. media temperature	°C	35	35	35

Measuring process complying with: [1] RL 2000/14/EU

8. ACCESSORIES/SPARE PARTS

GARDENA Suction Hoses	Kink-proof and vacuum-proof, optionally available by the metre **Art. 1720/1721** (19 mm (3/4") / 25 mm (1")) without connecting fittings or in fixed length **Art. 9090/9091** complete with connecting fittings.	
GARDENA Suction Hose Fitting	For connection on the suction side.	**Art. 1723/1724**
GARDENA Pump Connection Set	For connection on the delivery side.	**Art. 1750/1752**
GARDENA Suction Filter with backflow preventer	To equip suction hoses with backflow preventer sold by the meter.	**Art. 9093**
GARDENA Pump Preliminary Filter	Recommended for pumping sandy water.	**Art. 1730/1731**
GARDENA Bore Hole Suction Hose	For vacuum-resistant connection of the pump to boreholes or pipe networks. Length 0.5 m. With 33.3 mm (G1) female thread at both ends.	**Art. 1729**
GARDENA Floater for floating suction	Can be attached to suction filter 9090 / 9092 / 9093 and enables dirt-free suction under the surface of the water.	**Art. 9094**
GARDENA Quick coupling	For pressure-side connection of 1" pressure hoses.	**Art. 7109/7103**

9. DISPOSAL

Disposal of the pump

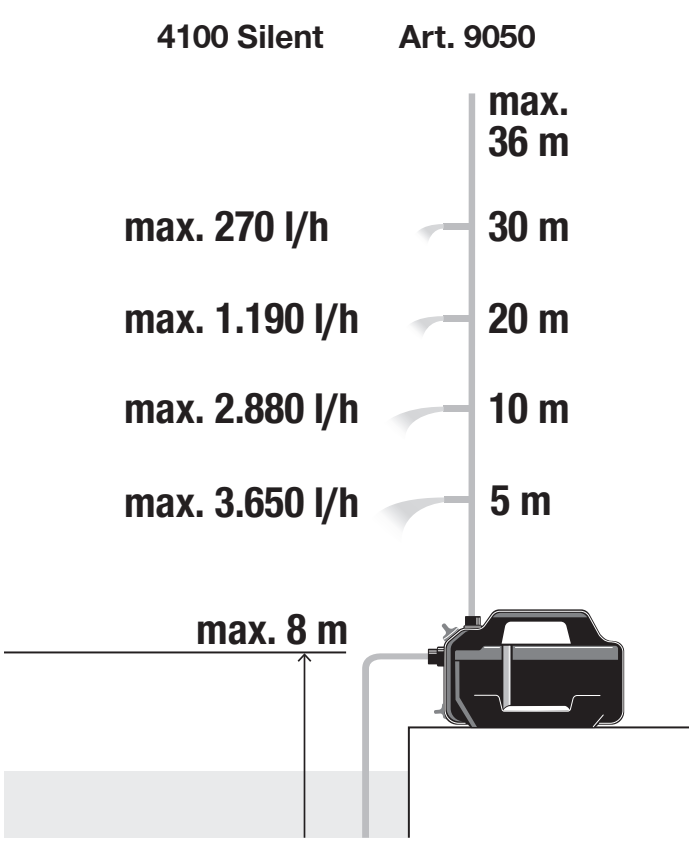
(according to Directive 2012/19/EU)

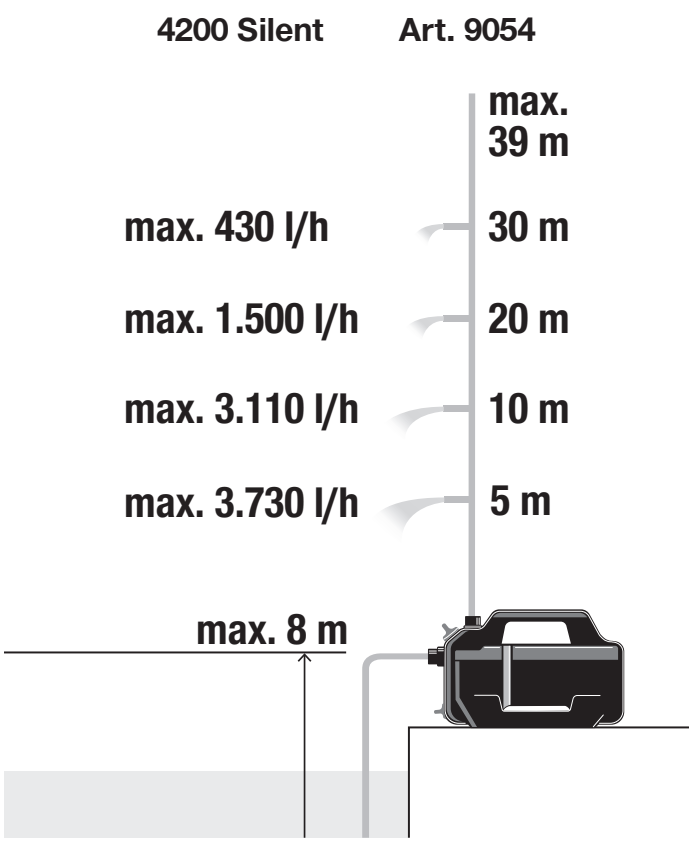
The product must not be disposed of to normal household waste. It must be disposed of in line with local environmental regulations.

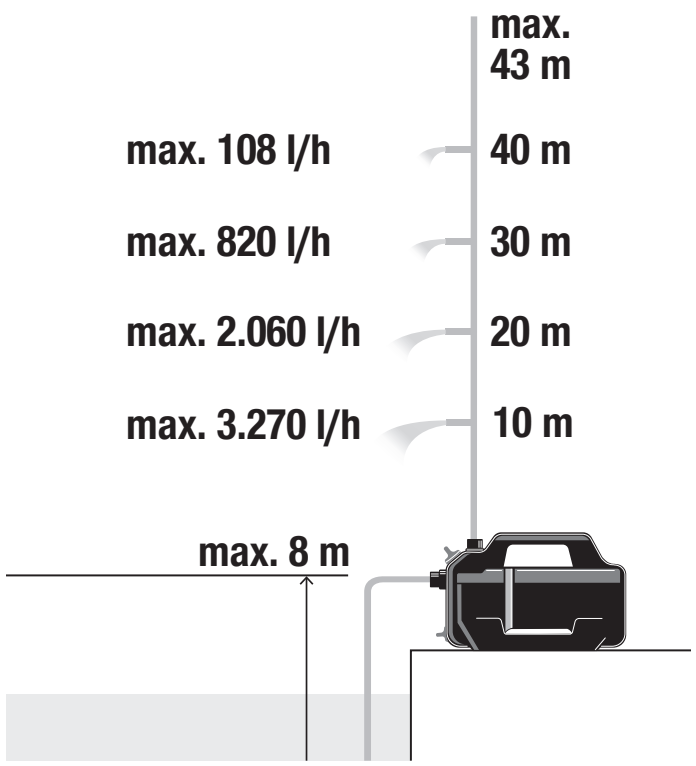
IMPORTANT!

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

10. PERFORMANCE CHARACTERISTICS







11. WARRANTY / SERVICE

11.1. Service

The current contact information for our service department can be found online: www.gardena.com/contact

11.2. Warranty

Husqvarna provides a manufacturer's warranty against faulty workmanship in manufacture and/or defective components to initial purchaser for each new GARDENA branded product produced by Husqvarna and purchased in Australia. To make a valid claim under this manufacturer's warranty the product and proof of purchase must be provided to the retailer. This warranty does not cover damage caused by misuse, neglect, adjustments and/or modifications by the consumer or normal wear and tear, the costs of shipping and handling, travel expense, lost time, or pickup and delivery.

11.2.1 Australia

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
Husqvarna Australia Pty Ltd (ABN 45 115 475 619) 4 Pioneer Avenue, Tuggerah NSW 2259. Tel: 1300 804 213.

11.2.2 New Zealand

This manufacturer's warranty is in addition to the rights and remedies provided by the New Zealand Consumer Guarantees Act. Husqvarna New Zealand Ltd (Company No. 111861) 51 Aintree Avenue, Airport Oaks, Manukau 2022. Tel: 09 920 2410. Made in Germany to GARDENA's specifications.

12. DECLARATION OF CONFORMITY

CE

EC Declaration of Conformity

Garden pump	Art. No.
4100 Silent	**9050**
4200 Silent	**9054**
4300 Silent	**9056**

The undersigned hereby certifies as the authorized representative of the manufacturer, GARDENA Germany AB, PO Box 7454, S-103 92, Stockholm, Sweden, that, when leaving our factory, the unit(s) indicated below is / are in accordance with the harmonised EU guidelines, EU standards of safety and product specific standards. This certificate becomes void if the unit(s) is / are modified without our approval.
Conformity Assessment procedure according to 2000/14/EC Art.14 Annex V, Noise level: measured/guaranteed[1]
Deposited Documentation[2] | Year of CE marking: 2022 | Ulm, 01/11/2022

(1) **73 dB (A)/75 dB (A)**
71 dB (A)/74 dB (A)
73 dB (A)/75 dB (A)

2014/35/EU EN ISO 12100
2014/30/EU EN 60335-1
2011/65/EU EN 60335-2-41
2000/14/EG

GARDENA®

(2) GARDENA Manufacturing GmbH
M. Jäger
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89079 Ulm / Germany

Martin Lienhard,
Senior Vice President,
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9050-52.960.02/0225

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