

3000/4 货号/Art. 1707 3500/4 货号/Art. 1709

CN 操作说明书 园林水泵

GB Operating Instructions
Garden Pump



Translation of the original German operating instructions. Please read the operating instructions carefully and observe the

notes given. Use these operating instructions to familiarise yourself with the product, the proper use and the safety instructions.



For safety reasons, children and young people under the age of 16, as well as people not familiar with these operating instructions, may not use this product. Persons with reduced physical or mental abilities may use the product only if they are supervised or instructed by a responsible person.

→ Keep these operating instructions in a safe place.

Contents:

1. Area of application of your GARDENA Garden Pump 1
2. Safety Instructions
3. Initial Operation
4. Operation
5. Putting into Storage1
6. Maintenance
7. Trouble-Shooting
8. Available accessories
9. Technical Data1
10. Service/Warranty

## 1. Area of application of your GARDENA Garden Pump

Purpose:

The GARDENA Garden Pump is designed for domestic use around the house and garden.

When the pump is used for pressure boosting, the maximum permissible internal pressure of 6 bar (on the delivery side) must not be exceeded. The increased delivery pressure and the pump pressure have to be added together.

• Example: Pressure at the tap = 2.4 bar, maximum pressure of the Garden Pump 3000/4 = 3.6 bar, total pressure = 6.0 bar.

Liquids that can be pumped:

The GARDENA Garden Pump can be used for pumping ground water and rain water, tap water and swimming pool water containing chlorine.

Please note:



The GARDENA Garden Pump is not suitable for continuous operation (e.g. industrial applications, continuous circulating operation). Corrosive, easily combustible, aggressive or explosive liquids (such as gasoline, petroleum or nitro thinner), saltwater and food must not be pumped. The temperature of the liquid must not exceed 35 °C.

## 2. Safety Instructions



## **DANGER! Electric shock!** Risk of injury due to electric shock.

→ Always unplug your Garden Pump before filling, after operation, when trouble-shooting and before carrying out any maintenance work.



CAUTION: Keep cable plug dry!



**RISK OF INJURY!** Hot water - risk of scalding!

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.

→ The pump should not run against the closed In Switzerland mobile appliances which are delivery side for more than 5 minutes.

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 via the main circuit breaker, let the water cool and secure the suction-side water supply before putting into operation again.

#### Location

Caution: Pursuant to DIN VDE 0100-702 and 0100-738 use of the pump nearby swimming pools and garden ponds and other similar places is only permissible if the pump is operated via a residualcurrent device (FI switch) with a residual current rating of ≤ 30 mA. The pump must not be operated when there are persons in the swimming pool or garden pond. The pump must be located on solid, even ground, protected from flooding. 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.

→ Please ask your electrician for his advice. 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.

→ Please consult a specialist for sanitary installations.

#### Extension cables

Data indicated on the type plate must match technical data of the mains supply.

Pursuant to DIN VDE 0620, power cable as well as extension cables must not have a smaller diameter than rubber sheathed cables described with letter symbols H05 RNF.

→ Don't use the power cable for carrying the pump or for plugging off.

#### In Austria

In Austria, the electrical connections must be made according to ÖVE-EM 42, T2 (2000)/ 1979 § 22 based on § 2022. Pursuant to this regulation it's imperative to operate pumps for swimming pools and garden ponds exclusively via an isolating transformer.

→ Please ask your electrician.

#### In Switzerland

used outdoors, must be connected via a residualcurrent device.

#### Visual check

→ Before operating the pump, first make a visual cheek, if there is any damage of the pump (esp. regarding power cable and plug).

A damaged pump must not be used.

→ In case of damage, please have the pump checked by our GARDENA Service Centre or by an authorised electrician.

→ Protect the pump from rain. Don't use the pump in wet or moist area.

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 to overflowing with approx. 2 to 3 l of the liquid to be pumped!

Sand and other abrasive substances in the liquid cause in-creased wear and reduce the pump's

→ Use a pump preliminary 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). Watering accessories with lower rate must not be operated.

## 3. Initial Operation

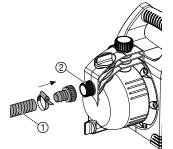
Setting up vour Garden Pump:

The site must be firm and solid in order to ensure safe and sturdy operating conditions for the pump.

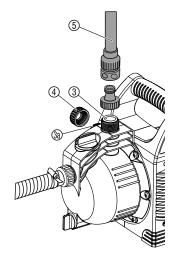
→ Position the pump at a safe distance (min. 2 m) from the liquid to be pumped.

The pump must be installed in a location with low air humidity and sufficient ventilation in the area of the ventilation slots. It must be at a distance of at least 5 cm from the walls. No dirtcontamination (e.g., sand or earth) may be sucked in through theventilation slots.

#### Connecting hose to suction side:



Connection hose to delivery side:



Don't use any hose connection system fittings on the suction side! A vacuum-resistant suction hose must be used. e. g. GARDENA Suction Unit (suction hose Art. 1721, suction hose fitting Art. 1724 and suction filter with backflow Art. 1727.

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 is stopped.

- 1. Screw a vacuum-resistant suction hose ① airtight onto the connector on the suction side of the pump (2).
- 2. For suction heights exceeding 4 m also secure the suction hose (1) (e.g. by fastening it to a wooden post). This relieves the pump of the weight of the suction hose.

The 3500/4 pump has 2 connections (3)/(3) on the delivery side. The pump connection not in use has to be closed by the cap 4). which can be unscrewed for connecting 2 hoses.

The pump connections (3)/(3) are equipped with a 33.3 mm (G 1") thread which can be used to connect 13 mm (1/2"), 16 mm (5/8") or 19 mm (3/4") hoses via the GARDENA hose connection system.

Optimised use of the pump capacity is achieved by connecting 19 mm (3/4") hoses with e.g. GARDENA Pump Connection Set Art. 1752, or by connecting 25 mm (1") hoses with GARDENA Quick Thread Coupling with female thread Art. 7109/Quick Coupling Hose Connector Art. 7103.

→ Connect the pressure hose (5) to the connector on the delivery

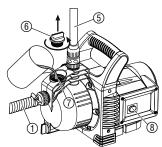
If more than 2 (3000/4 more than 1) hoses/accessories are connected simultaneously, we recommend using the GARDENA 2- or 4-Channel Water Distributor Art. 8193/8194. GARDENA Twin-Tap Connector Art. 940 which can be screwed directly onto the connection on the delivery side (3)/(3a).

12 13

## 4. Operation

#### Filling the pump:

(5)-





#### **DANGER! Electric shock!**

Risk of injury due to electric shock.

 $\rightarrow$  Disconnect from the mains before filling the Garden Pump.



#### **ATTENTION! Dry-Running**

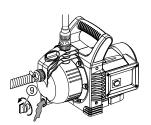
- → Before each operation, fill the pump to overflowing with approx. 2 to 3 I of the liquid to be pumped!
- 1. Unscrew the screw fitting (6) of the filler cap (7) by hand.
- 2. Fill the pump via the filler cap ① to overflowing with approx. 2 to 3 I of the liquid to be pumped.
- 3. Tighten the screw fitting (§) of the filler cap (?) by hand (do not use pliers).
- 4. Open any shut-off valves in the delivery line (accessories, water stop, etc.).
- Drain remaining water (§) in pressure hose so that air can escape during the suction process.
- 6. Insert the power plug.
- 7. Lift and hold the delivery hose ⑤ at least 1 m vertically above the pump, press the On/Off switch ⑥ (On/Off switch shines) and wait until the pump has primed.
- → If the pump does not deliver after approx. 5 minutes, switch off the pump (press On/Off switch ®) (see 7. Trouble-Shooting).

The specified maximum self-priming suction height of 7 m is reached only if the pump is filled via the filler neck ① up to the overflow and if, while doing so and during the self-priming, the delivery hose ⑤ is held up sufficiently high to prevent any flow medium escaping from the pump via the delivery hose ⑥.

## 5. Putting into Storage

min. 1 m

#### Overwintering / Storage:



Before the start of the frost period the Garden Pump should be stored protected from frost.

- 1. Open the water drain screw ⑨. The Garden Pump drains.
- 2. Store your Garden Pump so that it is protected from frost.

Disposal: (in accordance with RL2002/96/EC)



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

#### 6. Maintenance

The GARDENA Garden Pump is essentially maintenance-free.

99

#### Flush through Garden Pump:

The pump must be flushed through after discharging chlorinated swimming pool water.

- Pump through lukewarm water (max. 35 °C), possibly adding a mild cleaning agent (e.g. detergent) until the pumped water runs clear.
- 2. Remove residuals according to the waste disposal laws applicable in your area.

## 7. Trouble-Shooting



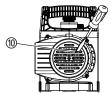
#### **DANGER! Electric shock!**

Risk of injury due to electric shock.

→ Disconnect Garden Pump from the mains before trouble-shooting.

Free the impeller:

**Problem** 



An impeller blocked by dirt can be freed again.

→ Turn the impeller bolt (1) using a screwdriver. This will free the blocked impeller.

# Pump runs, but the suction action doesn't take place

Possible Cause	Remedy
Pump sucks in air at a joint.	→ Seal connections on suction side that they are airtight.
Leaky or damaged suction hose.	→ Check suction line for damage and seal it that it is airtight.
The pump was not filled with the liquid to be pumped.	→ Fill the pump (see "4. Operation").
The liquid escapes over the hose which is connected to	1. Fill the pump again (see <b>"4. Operation"</b> ).
the delivery side during the suction action.	<ul><li>2. When starting operation hole the pressure hose approx.</li><li>1 m vertically above the</li></ul>

Absolutely vacuum-resistant connection is achieved by using GARDENA Suction Hoses (see point "8. Available accessories").

Leaky screw fitting (§) at the filler cap (7).

→ Check seal (replace if necessary) and tighten connection securely (do not use pliers).

pump, until the suction action has taken place.

Air cannot escape, since delivery side is closed or remaining water is in the pressure hose.

→ Open shut-off valves (e. g. nozzle) in the delivery line, empty the delivery hose or disconnect it from the pump during priming.

14 15

Problem	Possible Cause	Remedy
Pump runs, but the suction action doesn't take place	The waiting time wasn't observed.	→ Switch on the pump and wait up to 5 min.
	Suction filter or backflow preventer in the suction hose clogged.	→ Clean the filter or the back flow preventer.
	Too high suction height.	→ Reduce suction height.
	In case of any other difficulties couse GARDENA Suction Hoses wit (see point "8. Available accessor be pumped over the filler cap ① b	h Backflow Preventer ries") and fill in the liquid to
Pump motor runs, but delivery capacity or pressure suddenly decreases	Suction filter at the suction hose is sucked free.	→ Reduce flow rate on the delivery side with a control valve, e.g. GARDENA art. no. (2)977.
	Suction filter or backflow preventer clogged.	→ Clean filter or back-flow preventer.
	Leaks at suction side.	→ Eliminate leak.
	Impeller blocked.	→ Release impeller.
Pump motor doesn't start or suddenly stops	No power.	→ Check fuses and electric connections.
	Circuit breaker has switched off the motor due to overheating / overload.	→ Ensure sufficient cooling/ ventilation and clean the impeller chamber.
	Electric failure.	→ Send the pump to one of our GARDENA Service Centres.
Noise development in the hydraulic area	In the case of strong flows (e.g. op connecting device), noise may resthe pump. This is harmless and do of the pump. The noise can be rerthe flow (e.g. light opening/closing	ult in the hydraulic part of bes not lead to damage noved by lightly changing



For any other malfunctions please contact the GARDENA service department. Repairs must only be carried out by GARDENA service departments or specialist dealers authorised by GARDENA.

## 8. Available accessories

GARDENA Suction Hoses	Kink-proof and vacuum-proof, optionally available by the metre <b>Art. no. 1720/1721</b> (19 mm (3/4")-/25 mm (1")) without connecting fittings or in fixed length <b>Art. no. 1411/1418</b> complete with connecting fittings.	
GARDENA Suction Hose Fitting	For connection on the suction side.	Art. no. 1723/1724
GARDENA Suction Filter with backflow preventer	To equip suction hoses with backflow preventer sold by the metre.	Art. no. 1726/1727/1728

GARDENA Pump Preliminary Filter	Recommended for pumping sandy liquids.	Art. no. 1730/1731
GARDENA Electronic Manometric Switch	Automatically cuts in and out the pump depending on the current operating pressure. With dry-running safety. It must be installed at one of the two outlets.	Art. no. 1739
GARDENA Dry-Running Safety	Prevents the pump from damages in case of missing liquid. The Dry-Running Safety cannot be directly connected to the pump and must be mounted with Original GARDENA System Fittings in the pressure hose.	Art. no. 1741

## 9. Technical Data

Туре	3000/4 (Art. no. 1707)	3500/4 (Art. no. 1709)
Rated power	600 W	800 W
Max. delivery capacity	3,100 l/h	3,600 l/h
Max. pressure/max. delivery head	3.6 bar / 36 m	4.1 bar / 41 m
Max. self-priming suction height	7 m	7 m
Perm. internal pressure (delivery side)	6 bar	6 bar
Voltage/Frequency	220 – 240 V AC/50 Hz	220 – 240 V AC/50 Hz
Connection cable	1.5 m; H07-RNF	1.5 m; H07-RNF
Weight	6.5 kg	7.0 kg
Noise level L <sub>WA</sub> <sup>1)</sup>	measured 78 dB (A) guaranteed 81 dB (A)	measured 82 dB (A) guaranteed 85 dB (A)

<sup>1)</sup> Measuring method according to directive 2000/14/EC

16 17

## 10. Service/Warranty

#### Warranty:

GARDENA guarantees this product for 1 years (from date of purchase). This guarantee covers all serious defects of the unit that can be proved to be material or manufacturing faults. Under warranty we will repair the unit free of charge if the following conditions apply:

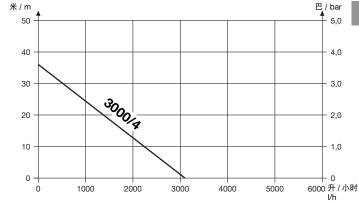
- The unit must have been handled properly and in keeping with the requirements of the operating instructions.
- Neither the purchaser or a non-authorised third party have attempted to repair the unit.

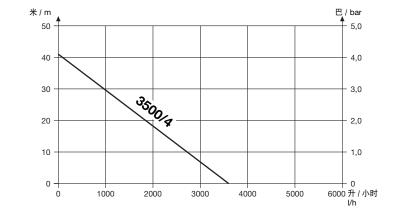
The impeller is a wearing part and is excluded for the warranty.

This manufacturer's guarantee does not affect the user's existing warranty claims against the dealer/seller.

If you have any problems with this product, please contact our Service or return the defective unit together with a short description of the problem - in case of guarantee, with a copy of the receipt - postage paid to one of the GARDENA Service Centres listed on the back of this leaflet.

### 抽吸特性曲线 Performance characteristics





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