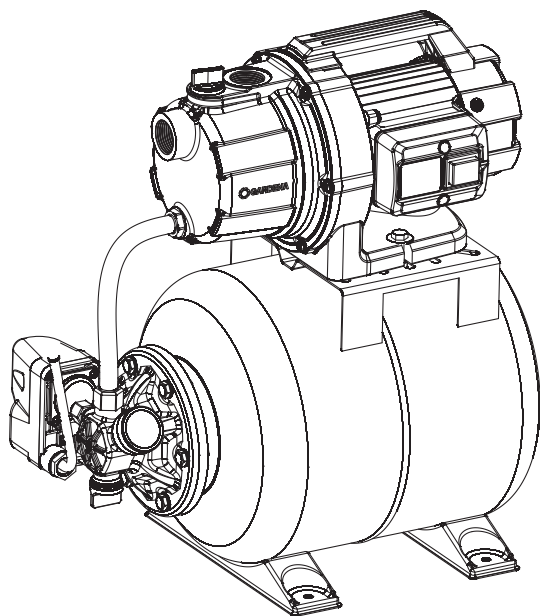


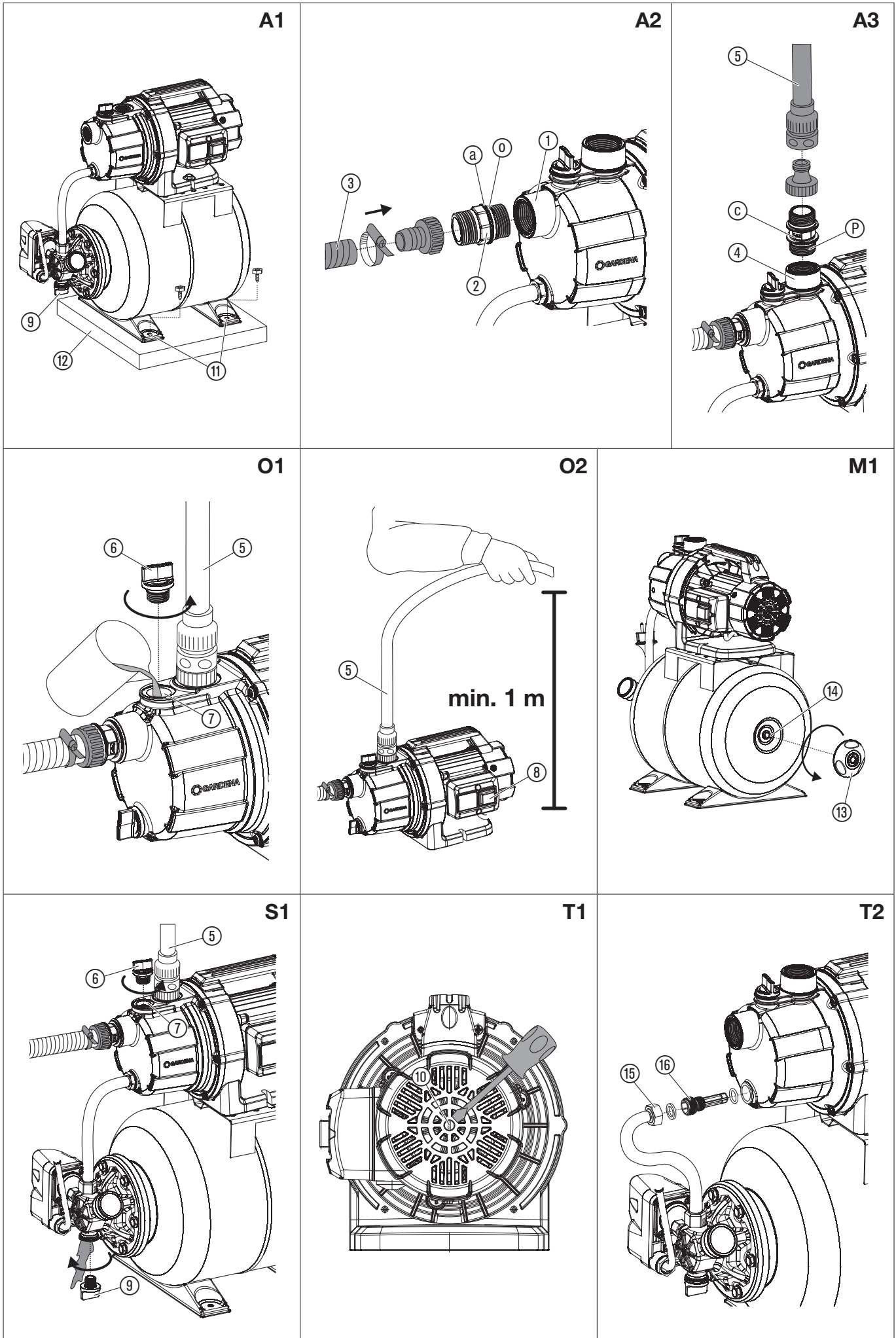


PTU 3700/4

Art. 9023

EN Operator's manual
Pressure Tank Unit

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LT Gaminio patikimumas Mes aiškiai pareiškiame, kad, atsižvelgiant į Vokietijos gaminių patikimumo įstatymą, neprisiimame 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.
LV Atbildība par produkcijas kvalitāti 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.



EN Pressure Tank Unit PTU 3700/4

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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. Never operate the product when you are tired, ill or under the influence of alcohol, drugs or medicine.

Intended use:

The **GARDENA Pressure Tank Unit** is intended for pumping ground water and rain water, tap water and water containing chlorine in private domestic gardens and allotments.
In the case of open consumers (e.g. water taps), pressure fluctuations may occur between the switch-on and switch-off ranges at certain flow rates.

Liquids to be pumped:

The GARDENA Pressure Tank Unit must only be used to pump water.
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 = 1.9 bar,
max. pressure of the Pressure Tank Unit = 4.1 bar,
total pressure = 6.0 bar.

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



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. 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 current.

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



DANGER! Risk of physical 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.

Circuit breaker

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.

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



DANGER! Electric shock!
Risk of injury due to electric current.

→ **Disconnect the product from the mains before you put into storage, maintain or troubleshoot.**

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.

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.

The pressure switch must not be opened. If the pressure switch is defective, contact GARDENA Service.

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

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.

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.



DANGER! Risk of injury due to hot water!

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 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.**



DANGER! Hearing damage due to bang!

→ **The tank must not be opened.**

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.

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 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.

2. ASSEMBLY



DANGER! Risk of injury!
Injury when the product starts accidentally.

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

To set up the 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 water.

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. Dirt (e.g. sand or soil) must not be sucked in through the ventilation slots.

The plastic connection pieces on the intake and delivery sides may only be tightened by hand.

Fixed installation of the pump [Fig. A1]:

A mounting plate ⑫ e.g. wooden plate (not included) prevents the pressure tank unit from slipping.

→ The Pressure Tank Unit can be screwed with all 4 feet ⑪ onto a solid surface ⑫ (We recommend the use of inbus screws).

Install the pressure tank unit so that there is room to place a suitably sized drainage tray under the drain screw ⑨ to allow the unit or system to be drained.

If possible, install the pump higher than the surface of the water to be pumped. If this is not possible, install a vacuum-resistant valve between the pump and the suction hose.

For permanent indoor installations for domestic water supply, the Pressure Tank Unit should not be connected to the domestic water pipework with rigid pipes but with flexible tubing, to reduce noise and to avoid damage to the pump caused by pressure blows.

If the system is being installed permanently, please fit suitable valves on both the intake and delivery sides. This is important e.g. for maintenance and cleaning work or if the system is being shut down.

To connect the hose to the suction side [Fig. A2]:

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

→ A vacuum-resistant suction hose must be used, e.g. **GARDENA Suction Unit, Art. 1411** or **GARDENA Bore Hole Suction Hose Art. 1729**.

A suction hose with backflow preventor must be used so that the suction hose does not drain automatically when the pump is switched off.

1. Screw the non-return valve ② into the pump connection ① with the O-ring ⑥ in the direction of the pump up to the stop a until the stop a touches the pump connection ①.
2. Connect the vacuum-resistant suction hose ③ airtight to the pump non-return valve ②.
3. For suction heights exceeding 4 m: Also secure the suction hose ③ (e.g. by fastening it to a wooden post).
This relieves the pump of the weight of the suction hose.

To connect the hose to the pressure side [Fig. A3]:

The pump connection ④ is equipped with a 33.3 mm (G 1") internal thread.

Tip: If permanent pipes are installed, they must be laid at an ascending angle in order to allow the water to flow back into the pump on the pressure side.

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 male thread Art. 7115/ Quick Coupling Hose Connector Art. 7103.**

1. Screw the pump connection piece ③ into the connector on the delivery side ④.
2. Connect the pressure hose ⑤ to the pump connection piece ③.

When using other connectors, then use sealing tape ⑰ on the external thread of the fittings.

If more than one hose/accessory is 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 pump connection piece ③.

3. OPERATION

 **DANGER! Risk of injury!**
Injury when the product starts accidentally.
→ **Disconnect the product from the mains before you connect, adjust or transport the product.**

To pump water [Fig. O1/O2]:



CAUTION! Dry-Running of the pump!

→ **Fill the pump with water up to the overflow (approx. 2 to 3 l) before each start-up.**

1. Check the pressure in the storage tank (see 4. MAINTENANCE).
 2. Unscrew the screw fitting ⑥ of the filler neck ⑦ by hand.
 3. Fill the pump via the filler neck ⑦ to overflowing with approx. 2 to 3 l of water.
 4. Tighten the screw fitting ⑥ of the filler neck ⑦ by hand (do not use pliers).
 5. Open any shut-off valves in the delivery line (accessories, water stop, etc.).
 6. Drain remaining water in pressure hose ⑤ so that air can escape during the suction process.
 7. Connect the pump to the mains.
 8. Lift and hold the delivery hose ⑤ at least 1 m vertically above the pump, push the On/Off switch ⑧ and wait until the pump has primed.
- **If the pump does not deliver water after approx. 5 minutes, switch off the pump (press On/Off switch ⑧) (see 6. TROUBLESHOOTING).**

Once the maximum pressure is reached the pump will switch off automatically. When the pressure falls below the minimum value due to water being drawn off, the pump will switch on again automatically.

The specified maximum self-priming suction height of 7 m is reached only if the pump is filled via the filler neck 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 water escaping from the pump via the delivery hose ⑤.

4. MAINTENANCE



DANGER! Risk of injury!

Injury when the product starts accidentally.

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

To flush the pump:

After pumping chlorinated 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. Remove residuals according to the waste disposal laws applicable in your area.

To check the pressure in the storage tank [Fig. M1]:

Check the pressure in the reservoir tank regularly.

The pressure in the storage tank must be approx. 1.5 bar. An air pump/tyre inflator with pressure indicator (manometer) is required to refill the air.

1. Unscrew the protective cover ⑬.
2. Open all the tapping points.
The pressure side is depressurised.
3. Place the air pump/tyre inflator on the tank valve ⑭ and refill with air until the pressure display on the air pump/tyre inflator shows approx. 1.5 bar.
4. Screw the protective cover ⑬ close again.

5. STORAGE

To put into storage [Fig. S1]:

The pump is not frost-proof!

The product must be stored away from children.

1. Disconnect the pump from the mains.
2. If applicable, close all the shut-off devices on the intake side.
3. Open all the tapping points.
The pressure side is depressurised.

4. Open the screw fitting ⑥ of the filler neck ⑦ and the water drain screw ⑨.
The pump drains.
5. 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 injury!

Injury when the product starts accidentally.

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

To loosen the impeller [Fig. T1]:

An impeller blocked by dirt can be freed again.

→ Turn shaft of the impeller ⑩ with a screwdriver.
This will loosen the stuck impeller.

To clean the filter [Fig. T2]:

If the pump does not start or stops suddenly during operation, this may be due to a clogged filter.

1. Loosen the screw connection ⑮.
2. Unscrew the filter ⑮.
3. Clean the filter ⑮ under running water.
4. Assemble the filter ⑮ in reverse order.

Problem	Possible Cause	Remedy
Pump is running, but the suction action doesn't take place	Leaky or damaged suction hose.	→ Check suction line for damage and seal it so it is airtight.
	The pump was not filled with water.	→ Fill the pump (see 3. OPERATION).
	The liquid escapes over the hose which is connected to the delivery side during the suction action.	→ 1. Fill the pump again (see 3. OPERATION). 2. When starting operation hold the pressure hose approx. 1 m vertically above the pump, until the suction action has taken place.
	Absolutely vacuum-resistant connection is achieved by using GARDENA Suction Hoses (see 8. ACCESSORIES).	
	Leaky screw fitting at the filler neck.	→ Check seal (replace if necessary) and tighten connection securely (do not use pliers).
	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.
	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 concerning the suction action, use GARDENA Suction Hoses with Backflow Preventer (see 8. ACCESSORIES) and fill in the liquid to be pumped over the filler neck before operation.	
Pump does not start, or stops suddenly during operation	Thermal switch has turned the pump off because of over-heating.	→ Clean the filter. Observe the max. media temperature (35 °C).
	No power supply to the pump.	→ Check fuses and electrical plug connections.

Problem	Possible Cause	Remedy
Pump does not start, or stops suddenly during operation	RCD has triggered (residual current).	→ Disconnect the pump and contact the GARDENA Service.
	Pump is not switched on.	→ Push the On/Off switch to On.
Pump is running but the delivery drops suddenly	Suction hose end is not in water.	→ Submerge the end of the suction hose deeper in the water.
	Suction filter or backflow preventer clogged.	→ Clean the suction filter or back-flow preventer.
	Leaks at suction side.	→ Eliminate leak.
	Impeller blocked.	→ Release impeller.
Noise development in the hydraulic area	In the case of strong flows (e. g. open hose end, without connecting device), noise may result in the hydraulic part of the pump. This is harmless and does not lead to damage of the pump. The noise can be removed by lightly changing the flow (e. g. light opening/ closing of a connecting device).	
Pump switches on and off too often	Tank membrane is damaged.	→ Let the tank membrane be replaced by the GARDENA Service.
	Pressure in the tank is too low.	→ Refill the air in the storage tank.
	Leakage on the pressure side.	→ Eliminate leaks on the pressure side.



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

Pressure Tank Unit	Unit	Value (Art. 9023)
Rated power	W	800
Mains voltage	V (AC)	230
Mains frequency	Hz	50
Max. delivery capacity	l/h	3700
Max. pressure/ max. delivery head	bar /	4.1
	m	41
Max. self-priming suction height	m	7
Working pressure p(W) (switch-on to switch-off pressure)	bar	1.5 – 2.8
Permitted internal pressure (delivery side)	bar	6
Power cable	m	1.5 (H07RN-F)
Weight	kg	13.1
Sound power level $L_{WA}^{1)}$ measured/ guaranteed Uncertainty $K_{WA}^{2)}$	dB(A)	78 / 82
		3.58
Max. media temperature	°C	35

Measuring process complying with: ¹⁾ RL 2000/14/EU ²⁾ ISO 4871

8. ACCESSORIES

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. 1411/1418 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 metre.	Art. 1726/1727/1728
GARDENA Pump Preliminary-Filter	Recommended for pumping sandy liquids.	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 Floating suction system	For dirt-free suction below the water surface.	Art. 1417
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GARDENA Pump Connection Piece	For connecting the GARDENA Connection System on the pressure side.	Art. 1745
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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.

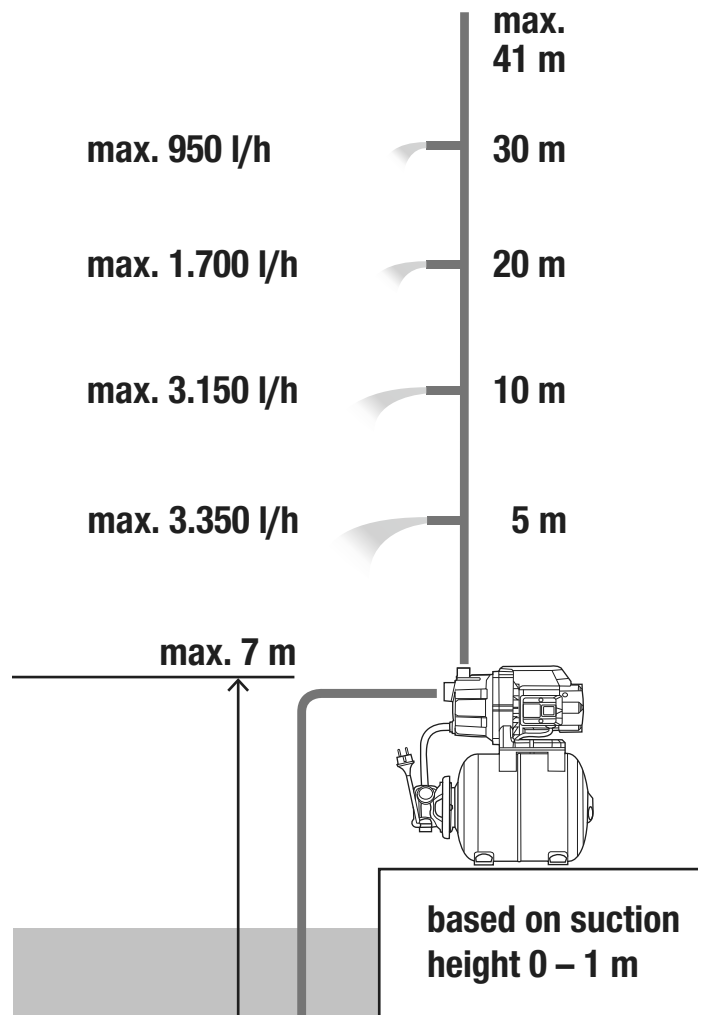
In case of a warranty claim, please return the faulty product, together with a copy of the receipt and a description of the fault, with postage paid to the service address.

Consumables:

The impeller and the diaphragm are consumables and are 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 črpalke
 Obilježja pumpe
 Karakteristika pumpe
 Крива характеристики насоса
 Caracteristică pompă
 Pompa karakter eğrisi
 Помпена характеристика
 Fuqia e pompës
 Pumba karakteristik
 Siurblio charakteristinė kreivė
 Sūkņa raksturlīkne

PTU 3700/4 Art. 9023



[illegible]

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