


PTU 3000/4 BASIC

Art. 9020

EN Operator's manual
Pressure Tank Unit

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Translation of the original instructions.

 This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. (IEC 60335-1)

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

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 = 2.5 bar, max. pressure of the Pressure Tank Unit Art. 9020 = 3.5 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 INSTRUCTIONS

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 mm ²
230 – 240 V/50 Hz	20 – 50 m	2.5 mm ²



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 ⑬ 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. 9090** 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.

We recommend to install an additional non-return valve, e.g. GARDENA intermediate brass valve Art. 7231, between the pump connection piece and the hose.

1. Screw the pump connection piece ② into the connector on the suction side ①.
2. Connect the vacuum-resistant suction hose ③ airtight to the pump connection piece ② of the pump.
3. For suction heights exceeding 4 m: Also fix 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.

E.g. a GARDENA pump connection piece Art. 1745 is required for the GARDENA Connection System (included in scope of delivery).

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

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 ②.

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 5 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 5 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, press 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 ⑦ 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 depressurized.
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 depressurized.
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 of the product:

(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 by means of a 17 mm hex wrench.
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 so 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.

Problem	Possible Cause	Remedy
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).	
	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 backflow 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 overheating.	→ Clean the filter. Observe the max. media temperature (35 °C).
	No power supply to the pump.	→ Check fuses and electrical plug connections.
	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. 9020)
Rated power	W	600
Mains voltage	V (AC)	220 – 240
Mains frequency	Hz	50
Max. delivery capacity	l/h	3000
Max. pressure / max. delivery head	bar / m	3.5 / 35
Max. self-priming suction height	m	7
Working pressure p(W) (switch-on to switch-off pressure)	bar	1.5 – 2.4
Permitted internal pressure (delivery side)	bar	6
Power cable	m	1.5 (H07RN-F)
Weight	kg	10.2

Pressure Tank Unit	Unit	Value (Art. 9020)
Sound power level $L_{WA}^{1)}$ measured / guaranteed Uncertainty $k_{WA}^{2)}$	dB(A)	74 / 77 2.6
Max. media temperature	°C	35

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

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 metre.	Art. 9093
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 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 Pump Connection Piece	For connecting the GARDENA Connection System on the pressure side.	Art. 1745

9. SERVICE/WARRANTY

9.1 Service:

Please find the current contact information of our service on the back page and online:

- Australia: <https://www.gardena.com/au/support/advice/contact/>
- New Zealand: <https://www.gardena.com/nz/support/advice/contact/>

9.2 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.

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

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

Performance characteristics

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