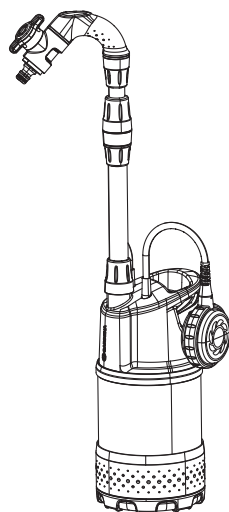
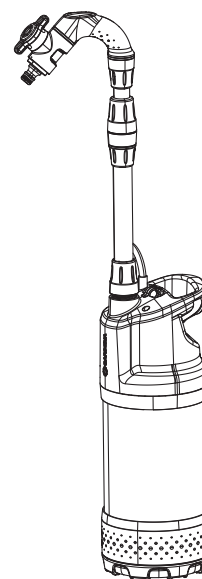


Art. 1762 4000/1



Art. 1764 4700/2 inox




Art. 1766 4700/2 inox automatic

EN Operator's manual
Rain Water Tank Pump

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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)

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. (EN 60335-1)


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

Intended use:

The **GARDENA Rain Water Tank Pump** is intended for draining water from fountains, shafts and other water reservoirs, for operating irrigation equipment and systems, for pumping rainwater, tap water and chlorinated water in private domestic gardens and allotments.

The pump is completely submersible (watertight encapsulation) and is submerged in the water (to a max. depth of 7m).

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

 **DANGER! Risk of injury!**
The pump should 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 breakers

Dry-running protection:
 If the water level is too low, the pump switches off automatically.
 → Submerge the pump deeper into the water.

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 below the handle.

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!

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.

The mains power cable must not be used for fastening or transporting the pump.

Submersion and withdrawal of the pump should be by means of the telescopic pipe. Alternatively, a cord can be secured on the pump for submersing, lifting and securing of the Rain Water Tank 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.

Do not disassemble the pump any further than the delivery condition.

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.

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

Only for Art. 1762/1764: 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 pump must not be operated without the filter.

The float switch 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 injury!

Injury when the product starts accidentally.

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

To assemble the telescopic pipe [Fig. A1]:

We recommend the use of a **GARDENA Hose Connector** for connecting a garden hose:

- **Art. 18215** for 13 mm (1/2") and 16 mm (5/8") or
- **Art. 18216** for 19 mm (3/4"). With the use of 19-mm-(3/4")-hose line, the pumping quantity is the greatest.

The telescopic pipe can be adjusted between 38 – 55 cm.

1. **Only for Art. 1766:** Screw the upper part of the telescopic pipe ⑬ counterclockwise onto the lower part of the telescopic pipe ⑩. Make sure that the small washer ⑳ is located in the connecting thread of the lower part of the telescopic pipe ⑩.
2. **Only for Art. 1762/1764:** Put the float switch locking ① on the pump connector ③.
3. Screw the telescopic pipe ① onto the pump connector ③. Make sure that the big washer ⑳ is located in the connecting thread of the telescopic pipe ①.
4. Loosen the threaded collar ④ of the telescopic pipe ①.
5. Adjust the telescopic pipe ① to the desired height and tighten the threaded collar ④ again.
6. Connect the garden hose to the telescopic pipe ①.

The telescopic pipe ① is fitted with a **GARDENA Shut-Off Valve** ⑤. The shut-off valve ⑤ can also be used for fine adjustment of the pump performance.

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 from a container [Fig. O1]:

The length of the telescopic pipe ① should be adjusted in such a manner that the pump does not touch the bottom of the container; this way, dirt in the container is kept away from the pump.

1. Hang the pump from the telescopic pipe ① into the container.
2. If necessary, extend the telescopic tube ① with a hose (see 8. ACCESSORIES).
3. Connect the pump to the mains.
Attention! The pump begins operating immediately.

Applications:

In shallow vessels [Fig. O2]:

If the rain water tank pump is placed in flat containers, e.g. to empty a paddling pool, the telescopic pipe can be removed and replaced with the

- **GARDENA tap connector 33.3-mm (G 1) Art. 18202/18042/2602.**

The hose connection 13 mm (1/2"), 16 mm (5/8") or 19 mm (3/4") is made using the Original GARDENA System or GARDENA Profi "Maxi-Flow" System threaded hose connectors.

In deep containers:

For deeper containers (up to max. 7 m), the pump can no longer be hung on the telescopic pipe. The pump must then be attached through a cord connected to the pump and submersed into the container.

We recommend to attach the hose to the pump without the telescopic tube.

Operation of a Micro-Drip-System:

The operation of a Micro-Drip-System is possible.

Only for Art. 1762: The pump is ideally suited for connection to a Micro-Drip-System without a Master Unit.

Only for Art. 1766: From 100 l/h the pump runs continuously. Below this, the pump frequently switches on and off and switches to the small quantity program.

Operation with one sprinkler:

Article	Max. Flow rate/pressure at the sprinkler	Max. Irrigation area	Possible sprinklers	Max. recommended hose length 19 mm (3/4")	13 mm (1/2")
1762	570 l/h / 0.8 bar	30 m ²	Aqua (S)	30 m	10 m
1764/1766	750 l/h / 1.8 bar	90 m ²	Aqua (S, M, L), AquaZoom (S, M, Compact)	35 m	15 m

Only for Art. 1762/1764:

Automatic mode with float switch [Fig. O3]:

So that the pump automatically switches off when there is no liquid to pump, the Float Switch ⑥ must be able to freely move on the surface of the water.

To adjust the Cut-in and Cut-out Height [Fig. O4]:

The maximum cut-in height and minimum cut-out height (see 7. TECHNICAL DATA) can be adjusted by pushing the float switch wire into the float switch lock.

- The shorter the length of cable between the float switch ⑥ and the float switch lock ⑦, the lower the cut-in height and the higher the cut-out height.

→ Push the cable of the float switch ⑥ into the opening in the float switch lock ⑦.



CAUTION!

In order to ensure that the float switch is able to switch on and off, the cable length between the float switch and the float switch lock must be at least 10 cm.

Manual operation [Fig. O5]:

The pump remains permanently in operation because the float switch is bypassed. This deactivates the dry-running protection of the pump.

1. Push the float switch ⑥ onto the float switch locking ① with the cable downwards.
2. Stand the pump on a firm surface – or – immerse the pump in a well or shaft using a rope attached to the pump.
3. Connect the pump to the mains.
Attention! The pump begins operating immediately.

The minimum residual water depth (see 7. TECHNICAL DATA) is only achieved in manual mode because the float switch already switches off the pump before this when in automatic mode.

Only for Art. 1766:

Automatic mode:

The pump automatically switches off as soon as no more water is retrieved.

Due to the integrated non-return valve, the pressure is maintained in the hose until water is drawn via the hose.

When water is drawn via the hose (the pressure in the hose falls below approx. 1.4 bar), the pump switches on automatically.

Low quantity program and leakage detection:

Leakage detection:

In the event of a leakage or a dripping tap, the pressure constantly falls below the turn-on pressure and the pump switches itself on and off continuously.

If the pump is constantly switched on and off, the pump switches off automatically to prevent unwanted water leakage.

Low quantity program:

To prevent the pump from switching off earlier when used with low quantity of water (e.g. drip irrigation), the leakage detection is only activated after 60 minutes.

Switching the pump on and off cyclically during the low quantity program has no effect on the service life of the pump.

For continuous drip irrigation:

If the low quantity program is to be used for more than 60 minutes, the irrigation must be disrupted for at least 5 minutes before the end of the 60 minute period. The low quantity program can then be used for a further 60 minutes.

4. MAINTENANCE



DANGER! Risk of injury!

Injury when the product starts accidentally.

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

To clean the filter [Fig. M1]:

In order to ensure continuous trouble-free operation, the filter ⑦ should be cleaned at regular intervals.

After pumping dirty water, the filter ⑦ must be cleaned immediately.

1. Turn the filter ⑦ 1/4 turn clockwise and remove it (bayonet lock).
2. Clean the filter ⑦ under running water.
3. Re-install the filter ⑦ in the opposite sequence.

The pump must not be operated without the filter.

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.

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. Unscrew the telescopic tube/pressure hose.
3. Open the Shut-Off Valve of the telescopic tube completely.
4. Hold the pump in the upright position and let the water in the pump run out.
Only for Art. 1766: Turn the pump upside down until no more water runs out.
5. Clean the pump (see 4. MAINTENANCE).
6. Store the pump and the telescopic tube 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.**

Problem	Possible Cause	Remedy
Pump is running, but doesn't deliver	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).
	Shut-Off Valve is closed.	→ Open the Shut-Off Valve
	Air in suction foot.	→ Wait for about 60 seconds until the pump has vented; if necessary, turn off and then on again.
	Filter is clogged.	→ Clean the filter (see 4. MAINTENANCE).
	Water level below minimum water level when put into operation.	→ Submerge the pump deeper.
Pump does not start, or stops suddenly during operation	Thermal switch has turned the pump off because of over-heating.	→ Clean the filter (see 4. MAINTENANCE). 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.
Only with Art. 1766:	Leakage detection is activated. The maximum duration of the leakage detection (low quantity program 60 min.) has been exceeded.	→ When using the low quantity program, shorten the watering duration or interrupt for 5 minutes. Increase the water consumption. Disconnect the mains plug. Check that all seals are in place in the telescopic pipe and that the nuts have been well tightened.
	Leak on pressure side.	→ Eliminate any leak on the pressure side. Check that all seals are in place in the telescopic pipe and that the nuts have been well tightened.
Pump is running but the delivery drops	Filter is clogged.	→ Clean the filter (see 4. MAINTENANCE).



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

Rain Water Pump	Unit	Value (Art. 1762)	Value (Art. 1764)	Value (Art. 1766)
Rated Power	W	400	550	550
Mains voltage	V (AC)	220 – 240	220 – 240	220 – 240
Mains frequency	Hz	50	50	50
Max. delivery capacity	l/h	4000	4700	4700
Max. pressure / max. delivery head	bar / m	1.3 / 13	2.3 / 23	2.3 / 23
Max. submersion depth	m	7	7	7
Min./max. cut-in height	mm	290 / 450	350 / 550	–
Min./max. cut-out height	mm	130 / 160	190 / 210	–
Residual water level	mm	5	5	5
Switch-on pressure	bar	–	–	1.4
Min. submersion depth for operation (approx.)	mm	60	60	60
Power cable	m	10 (H05RN-F)	10 (H05RN-F)	10 (H07RN-F)
Weight without cable (approx.)	kg	3.5	4.9	5.9
Max. media temperature	°C	35	35	35

8. ACCESSORIES

GARDENA Hose Connector 1/2"

Art. 18215
Art. 18255

GARDENA Hose Connector 3/4"		Art. 18216 Art. 18256
Telescopic tube extension:		
GARDENA Extension Pipe	To extend the telescopic tube.	Art. 1420
GARDENA Pump Connector 1"		Art. 1745
GARDENA Professional Nipple 2 x		Art. 2817
GARDENA Tap Connector 1" 2 x		Art. 2802
GARDENA Hose 3/4"		Art. 18085

9. WARRANTY/SERVICE

9.1 Product registration:

Please register your product at gardena.com/registration.

9.2 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/>

9.3 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.

9.3.1 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.

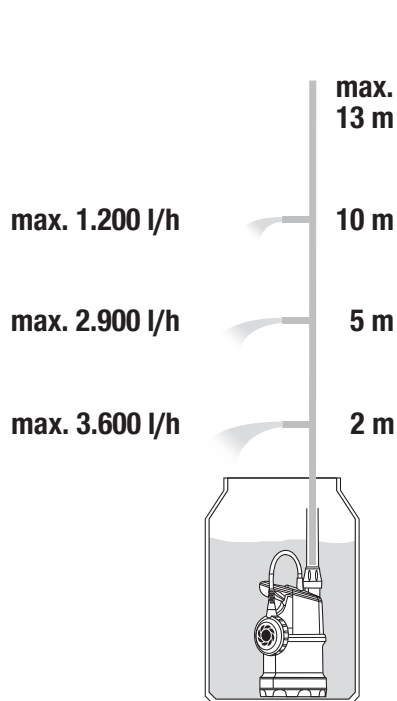
9.3.2 New Zealand

This manufacturer's warranty is in addition to the rights and remedies provided by the New Zealand Consumer Guarantees Act.

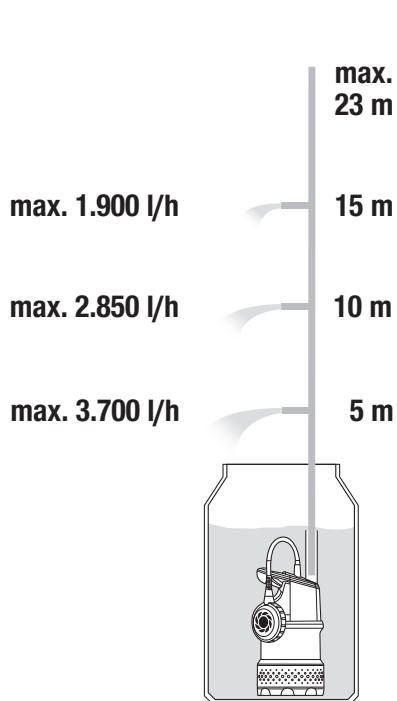
Husqvarna New Zealand Ltd
(Company No. 111861)
51 Aintree Avenue Airport Oaks
Manukau 2022
Tel: 09 920 2410
Made in Germany to GARDENA's specifications.

Performance characteristics

**4000/1
Art. 1762**



**4700/2 inox
Art. 1764**



**4700/2 inox automatic
Art. 1766**

