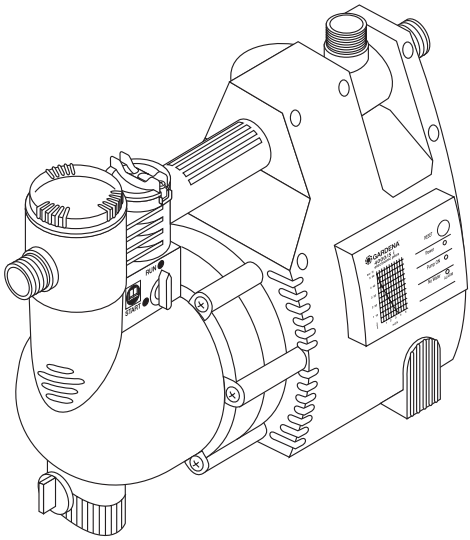
GARDENA



4000/4 i	Art. 1481
4000/5 i	Art. 1483
5000/4 i	Art. 1485
5000/5 Inox i	Art. 1487

D **Betriebsanleitung**
Hauswasserautomat electronic plus mit Trockenlaufsicherung

GB **Operating Instructions**
Pressure Tank Unit electronic plus with Dry-Running Safety

F **Mode d'emploi**
Station de pompage automatique electronic plus
avec sécurité manque d'eau

NL **Instructies voor gebruik**
Pomp met hydrofoor electronic plus met droogloopbeveiliging

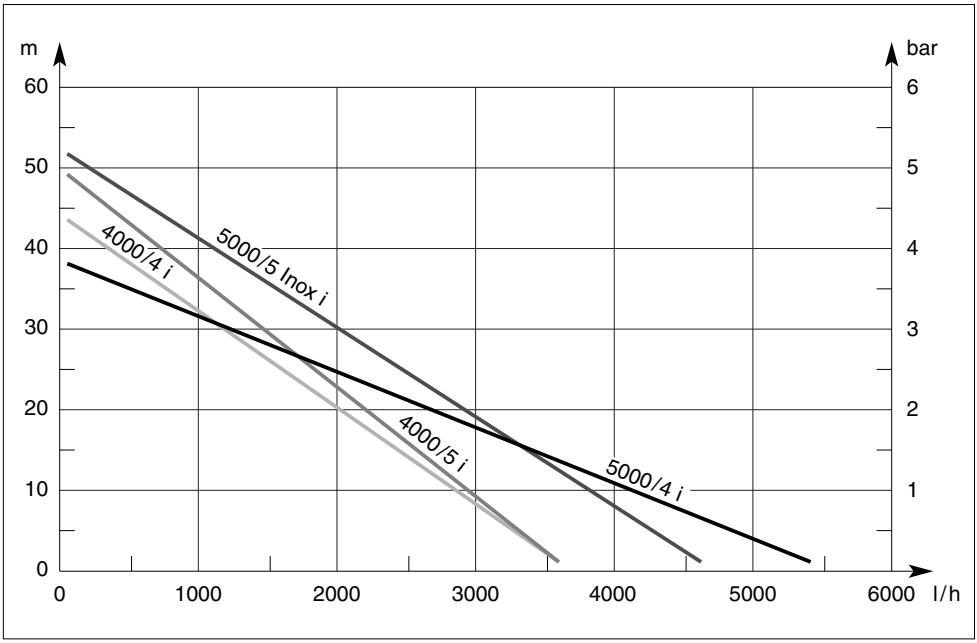
S **Bruksanvisning**
Pumpautomat electronic plus med Torrkörningsskydd

I **Istruzioni per l'uso**
Pompa ad intervento automatico electronic plus
con sicurezza contro il funzionamento a secco

E **Manual de instrucciones**
Bomba automática electronic plus
con protección del recorrido en vacío

P **Instruções de utilização**
Bomba de Pressão electronic plus
com protecção contra o funcionamento em seco

DK **Brugsanvisning**
Husvandværk electronic plus med tørløbssikring



D

Bitte lesen Sie diese Betriebsanleitung **vor Inbetriebnahme Ihres Gerätes sorgfältig.**

GB

Please read these operating instructions carefully before using the unit.

F

Nous vous remercions de bien vouloir lire attentivement ce mode d'emploi avant l'utilisation de votre pompe.

NL

Lees deze Instructies voor gebruik voor ingebruikname van het apparaat zorgvuldig door.

S

Läs igenom bruksanvisningen noggrant innan Du tar Din GARDENA Pump i bruk.

I

Prima di mettere in uso la nuova pompa, leggere attentamente le istruzioni.

E

Antes de la puesta en marcha del aparato, aconsejamos una atenta lectura del presente manual de instrucciones.

P

Por favor leia atentamente estas instruções de manejo antes de utilizar esta bomba.

DK

Læs denne brugsanvisning omhyggeligt igennem før montering og igangsætning af apparatet.

GARDENA Pressure Tank Unit electronic plus with Dry-Running Safety 4000/4 i, 4000/5 i, 5000/4 i, 5000/5 Inox i

Welcome to the Garden of GARDENA ...

Translation of the original instructions from German. Please read these operating instructions carefully and observe the notes given. Use the instructions to familiarise yourself with the equipment, the operating controls, their correct use, and the notes on safety.

⚠ For safety reasons, children under 16 as well as persons not familiar with these operating instructions should not use this Pressure Tank Unit.

Keep these operating instructions in a safe place.

Where to Use Your Pressure Tank Unit

Intended use

GARDENA Pressure Tank Units have been designed for private use around house and garden. Pressure Tank Units are predominantly used for operating watering implements and systems in private gardens.

Liquids to be pumped

The GARDENA Pressure Tank Units can be used for pumping rainwater, tap water or chlorinated swimming pool water.

Please note

⚠ GARDENA Pressure Tank Units are not designed for continuous operation (e.g. industrial application, continuous circulating operation). Corrosive, easily combustible, aggressive or explosive substances (e.g. petrol, petroleum, nitro thinner) as well as food must not be pumped.

Temperature of the liquid

The temperature of the liquid to be pumped should not exceed 35 °C.

⚠ Safety instructions

Use of pump near swimming pools

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 with a residual-current device with a residual-current rating ≤ 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.

➔ Please ask your electrician for his advice.

Mains power cables

Mains power cables should not have a smaller cross-section than a rubber sheathed cable of the designation H07 RNF. Extension cables must meet the requirements of DIN VDE 0620.

For Austria

In Austria, the electrical connections must be made according to ÖVE-EM 42, T2 (2000)/1979 § 22 based on § 2022.1. 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.

For Switzerland

In Switzerland mobile appliances which are used outdoors, must be connected via a residual-current device.

Using the pump for domestic water supply

When using the pump for domestic water supply, please adhere to the local water and sewerage regulations. In addition observe the regulations of DIN 1988. 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.

➔ If necessary, contact your sanitary expert.

Working environment

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

Visual check

Before operating the pump, first make a visual check, 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.

Check voltage

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

Notes on Use

Filter lid and backflow valve lid

Ensure that the filter lid and lid of the backflow valve are screwed on tight during operation.

Never carry the pump by its cable

Don't use the power cable for carrying the pump or for plugging off. Protect the power cable from heat, oil and sharp edges.

Remove plug

Please unplug the pump after operation and before carrying out any maintenance works.

Preventing dry-running

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

Wear and reduction in output

Sand and other abrasive substances in the liquid cause increased wear and reduce the pump's output.

Unsuitable for continuous operation

The pump is not designed for continuous operation (e.g. industrial application, continuous circulating operation).

Minimum flow rate

The minimum flow rate is 90 l/h (= 1.5 l/min). Watering accessories with lower rate must not be operated.

Max. permissible internal pressure

When using the pump for pressure intensification, the max. permissible internal pressure of 6 bar (on the delivery side) must not be exceeded. The to be increased delivery pressure and the pump pressure sum up.

Example: pressure at the water tap 1.5 bar, max. pressure of the GARDENA Pressure Tank Unit 5000/4 i electronic plus 3.8 bar, total pressure 5.3 bar.

Recommended Accessories

GARDENA Suction Unit

Art. No. 1411 (3.5 m) / 1418 (7 m)
Vacuum-resistant spiral hose, ready for connection to suction filter and backflow preventer ∅ 25 mm (1″).

GARDENA Suction Hoses

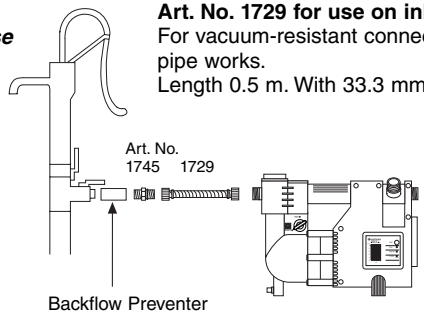
Kink- and vacuum-resistant, sold by the metre with 19 mm (3/4″) or 25 mm (1″) diameter without fittings or in fixed length, complete with fittings.
Art. No. 1720 19 mm (3/4″) or **Art. No. 1721** 25 mm (1″)

GARDENA Suction Filter with Backflow Preventer

Art. No. 1726 19 mm (3/4″); **Art. No. 1727** 25 mm (1″);
Art. No. 1728 19 mm (3/4″) / 25 mm (1″)
In metal / plastic

GARDENA Bore Hole Suction Hose

Art. No. 1729 for use on inlet side
For vacuum-resistant connection of the pump to bore holes or pipe works.
Length 0.5 m. With 33.3 mm (G 1) female thread at both ends.

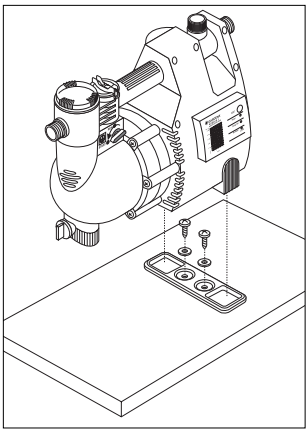


GARDENA Brass Quick Thread Couplings (➔ For use on delivery side)

Art. No. 7109 Quick Thread Coupling with 33.3 mm (G1) thread and
Art. No. 7120 Suction and High-Pressure Coupling for 19 mm (3/4″) hoses or
Art. No. 7121 for 25 mm (1″) hoses in conjunction with a hose clamp **Art. No. 7192**

Fixed Installation

Fixing Plate



To ensure the pump is stable and to prevent it from slipping, screw the fixing plate supplied onto a suitable surface.

Stand both feet of your Pressure Tank Unit on the fixing plate.

Set up the pump such that a suitably large container can be positioned below the drain screw for emptying the pump or unit.

If possible, install the pump higher than the surface of the water to be pumped.

Note:
If this is not possible, install a vacuum-resistant shut-off device between the pump and the suction hose, for example for cleaning the integrated filter.

Use compression-resistant and flexible hoses

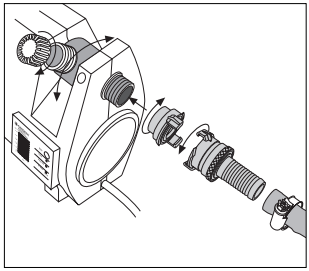
Use flexible, compression-resistant hoses for connection to the fixed installation (➔ noise reduction).

Install shut-off valves

For fixed installation, use shut-off devices on both the inlet and delivery sides of the pump
➔ important, for example, for maintenance and cleaning or for shutting down the pump.

Delivery Side Connection

Delivery side



The hose connectors on the inlet side and delivery side must only be tightened by hand.

Connect the hose to the 33.3 mm (G 1) thread on the delivery side:

➔ To either the 120°-swivel and/or horizontal connection

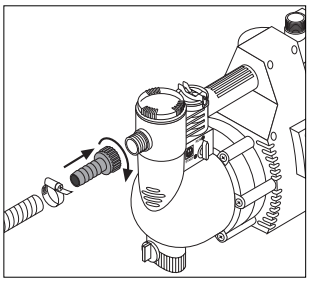
➔ Seal the connection which is not required with a cap.

Recommendation:
Use compression-resistant hoses, for example the GARDENA Profi Top Hose, 19 mm (3/4″) in diameter, Art. No. 4414 together with the GARDENA Quick Thread Coupling with female thread Art. No. 7109 (with 33.3 mm (G 1) thread) and the GARDENA Suction and High Pressure Coupling Art. No. 7120 (for 19 mm (3/4″) hoses) and a GARDENA hose clamp Art. No. 7192.

Optimum delivery capacity

Best results regarding the delivery capacity of the pump are achieved when connecting 19 mm (3/4″) hoses.

Inlet Side Connection



Screw the GARDENA Suction Unit (Art. No. 1411/1418) to the inlet side of the pump and screw tight by hand until the seal is tight. Then submerge the suction hose in the liquid to be pumped.

Fixed Installation:
For connection to pipes or borse holes, we recommend using the GARDENA Borse Hole Suction hose (Art. No. 1729).

Recommendation:
For suction heights exceeding 4 m, we recommend securing the suction hose, e.g. by fastening it to a wooden peg, thus the pump is relieved of load.

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

Before Operation

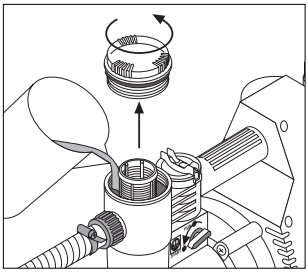
Setting Up and Filling the Pump

Position the pump at a safe distance from the liquid to be pumped

The pump must be positioned on a sturdy, dry surface to ensure the pump is stable.

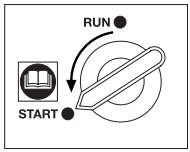
➔ Install the pump at a safe distance (min. 2 m) from the pumping medium.

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 dirt contamination (e.g. sand or earth) may be sucked in through the ventilation slots.



Filling the pump:

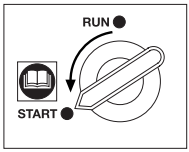
- Open the lid of the filter chamber
- Set the switch to **START** (➔ the integrated backflow valve is opened)
- Fill the pump completely via the filter chamber with the clean and cold liquid to be pumped.

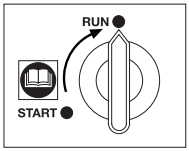


- Use a suction hose with backflow preventer and fill the hose with water to allow the pump to begin pumping the liquid fault-free (see section “Inlet Side Connection”).
- Screw the lid of the filter chamber back on.

Putting into Operation

Using the pump for the first time





- Set the switch of the backflow valve to **START.**
- Slightly open the release points in the delivery pipe (e.g. spray lance, tap)
  ➔ Air must be allowed to escape during the suction process.
- Plug the mains plug into a socket supplying 230 V AC.

Warning: The pump starts immediately!

As soon as the pump begins to pump, turn the switch to **RUN** (normal operation) ➔ ensures fault-free operation of the pump.

Electronic Control

Pressure tank units are equipped with an electronic control unit with fixed programs.
The electronic control unit is activated by pulses from the manometric switch and the flow recognition of the dry-running safety feature.
The manometric switch is set at the factory to a switching pressure of approx. 2.2 bar. This setting cannot be changed.
The dry-running safety mechanism protects the pump against damage and controls the time the pump continues to run against the closed delivery side.
The LEDs (light emitting diodes) display the operating status (➔ see “Electronic Control Display”).

Putting the pump into operation

- As soon as you plug the mains plug into a socket supplying 230 V AC, the red and green LEDs light up – the pump starts. The pump switches off once the max. pump pressure has been reached (➔ the green Pump LED extinguishes).

Manometric switch

- If the pressure decreases below the switching pressure of approx. 2.2 bar, the electronic control automatically switches on the pump.
  Note: Even the removal of a small quantity of water (several ml) can lead to a pressure drop which is sufficient for the pump to cut in.
- Once you have finished drawing-off water, the maximum pressure is created in the pipe. The pump then continues to run for approx. 10 seconds before switching off.
- The pump is switched off by the manometric switch if the liquid to be pumped fails to flow (➔ dry-running safety).

Fault

A fault occurs if water cannot be pumped or if there is a lack of water, for example:

- If the flow rate is less than approx. 90 l/h (➔ delivery side throttling)
- If the flow rate is less than approx.400 l/h (➔ inlet side throttling)
- If there is a leak in the system causing the pump to switch on and off more than 7 times within 2 minutes.
- Due to a suction hose without a backflow preventer.

Explanation of Terms

Priming cycle

The pump attempts to restore normal operation in 4 minutes.

Automatic self-priming mode (➔ yellow Alarm LED flashes)

After a fault, the pump's electronic control unit makes three automatic self-priming attempts at different time intervals (after 1 hour, after 5 hours and after 20 hours) to restore normal operation. The **priming cycle** (see above) is used for each of these attempts.

Re-plugging (removing the mains plug and then plugging it back in the socket again)

Important! Remove the plug from the socket! Check the unit and pump for any faults (see section "Finding Faults"). Rectify any faults and restart the pump by plugging the mains plug into a socket supplying 230 V AC.

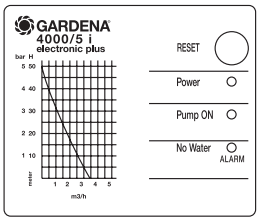
Electronic Control Display

Operating status

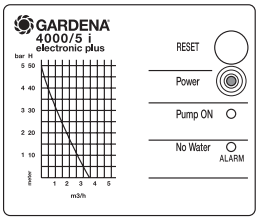
lit

flashing

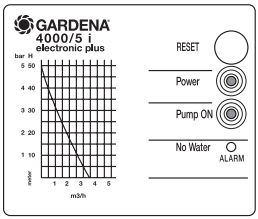
flashing quickly



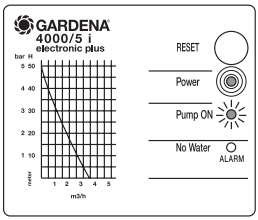
RESET Button
The RESET button is used to reset and restart the pump after a fault.



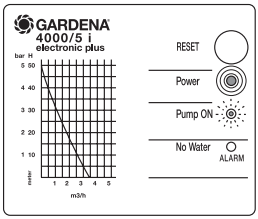
Red Power LED is lit
The pump is connected to the mains power.
The pump functions in the normal operating mode.



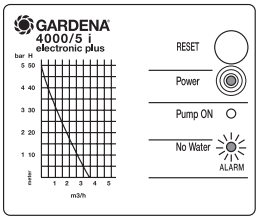
Green LED is lit
The pump is connected to the mains and the pump is running. Once the pump has reached the max. pump pressure, the pump switches off (the green LED extinguishes) and the pump functions in the normal operating mode.



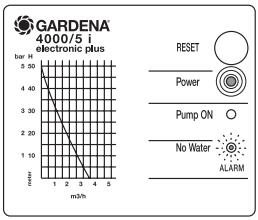
Green LED flashing slowly (once a second)
- The flow rate **on the delivery side** is too low (below 90 l/h). The pump continues to run and then switches off. It turns on again as soon as the switching pressure of approx. 2.2 bar has been reached (e.g. in the case of a leak).
- The pump must be switched off just before you finish draining water from the unit.



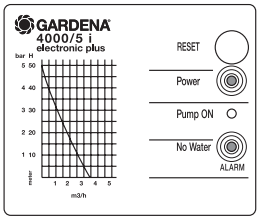
Green LED flashing quickly (four times a second)
- The flow rate **on the inlet side** is too low (below 400 l/h). The pump continues to run for approx. 40 seconds. If normal operation is not achieved during this time, the pump switches off and the control unit changes to the **"automatic self-priming mode".**
  Note: The pump can be switched on again at any time by pressing the RESET button..



Yellow LED flashing slowly (once a second)
- The amount of water is too low when restarting the pump. The pump runs through the first **"priming cycle".** If the normal operating mode is not achieved, the pump switches off and the control unit changes to the **"auto-matic self-priming mode".**
  Note: The pump can be restarted at any time by pressing the RESET button.

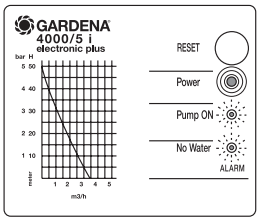


Yellow LED flashing quickly (four times a second)
- Alarm which indicates if the amount of water is too low when the pump is operating in the normal mode. The control unit changes to the **"automatic self-priming mode".**
  Note: The pump can be restarted at any time by pressing the RESET button.



Yellow LED is lit

- The **"automatic self-priming mode"** is no longer active and the unit is no longer supplying water (e.g. no water in the container or borse or the filter is dirty).
  Note: The pump can be restarted at any time by pressing the RESET button or by **"re-plugging".**



Green and yellow LEDs flashing quickly and alternately
(four times a second)

- Warning: There is a leak in the pipe system.
  The pump switches on and off because of a leak. If the pump switches on and off more than 7 times within 2 minutes, the control unit issues a warning via flashing LEDs and the motor switches itself off.
  Note: The pump can only be restarted by **"re-plugging".**

GB

Finding Faults

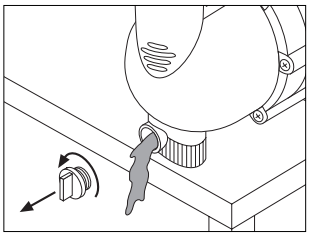
Important!
Unplug the pump.
Check the pump for possible faults such as:

- ➔ Faulty or leaking back-flow preventer at the end of the suction hose
- ➔ Pump and suction hose are not filled up with the liquid to be pumped
- ➔ Backflow valve switch set to **START** and was not set to RUN once the pump began pumping
- ➔ Suction hose end is not submerged into the liquid
- ➔ Outlet too low
- ➔ Suction hose or connections are not water-tight
- ➔ Suction filter clogged
- ➔ Air cannot escape on delivery side since release points are closed etc.
- ➔ Delivery pipe or consumer are not water-tight
- ➔ The pump switches on and off because of a leak. If the pump switches on and off more than 7 times within 2 minutes, the control unit issues a warning via flashing LEDs and the motor switches itself off.

Clear the fault. Plug in the pump in order to start again operation of the pump.

Shouldn't the pump start priming, although you have repeatedly pressed the **RESET** button, please contact one of our GARDENA Service Centres (addresses you will find on the rear side).

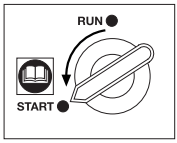
Storing Your Pressure Tank Unit



Always remove the mains plugs before working on the pump.

Protect your pump against frost.

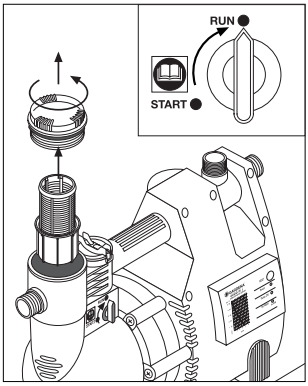
- ➔ Set the switch to **START** and empty the pump via the drain screw.
- ➔ Store you pump away from frost.



Disposal
(in accordance with RL2002/96/EC)

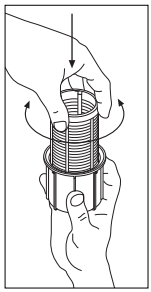
The product must not be added to normal household waste. It must be disposed of in line with local environmental regulations.

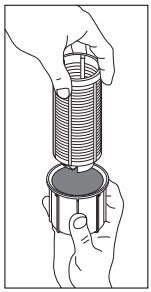
Cleaning the Integrated Filter



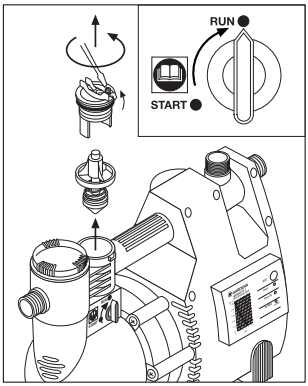
Always remove the mains plugs before working on the pump.

- Set or leave the switch on **RUN.**
- If necessary, close the shut-off device on the inlet side of the pump.
- Unscrew the filter lid by turning anti-clockwise.
- Remove the filter unit by pulling vertically upwards.
- Hold the container and remove the filter from the bayonet socket by turning anti-clockwise.
- Rinse the container under running water and clean the filter using a soft brush, for example.
- Reassemble the container-filter unit in reverse order.
- Insert the cleaned filter unit into the pump.
- Screw on the filter lid until tight.

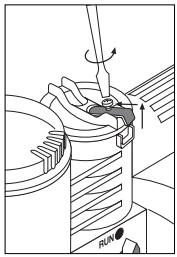




Cleaning the Integrated Back-Flow Valve



Always remove the mains plugs before working on the pump.



- Set or leave the switch on **RUN.**
- ⚠ Ensure that the delivery side is depressurised, for example, by opening the consumers.
- Close any shut-off devices on the inlet and delivery side.
- Loosen the screw by turning it anti-clockwise until you can push the holder upwards and backwards into opening position.
- Remove the lid of the integrated back-flow valve by turning anti-clockwise.
- Remove the valve body and rinse under clean running water.
- After cleaning, replace the valve body centrally in the correct position (cone point downwards).
- Screw on the lid until tight.
- Push the holder forwards and position it in its original position. Then tighten the screw again by turning it clockwise.

Trouble-Shooting

Problem	Probable cause	Remedy
Pump motor runs, but delivery capacity or pressure suddenly decreases.	Leaks at suction side.	Eliminate leak.
	Suction filter on suction hose is partially or entirely exposed.	Throttle the pump on the delivery side to adjust the flow rate of the inlet side to the rate of the delivery side. Observe min. flow rate (see “Technical Data”).
	Suction filter or backflow preventer clogged.	Clean filter or backflow preventer.
Pump doesn’t deliver water.	Leaks at suction side.	Eliminate leak.
Pump switches on and off continuously if liquid is drawn at a rate greater than 400 l/h.	Dirt has collected on the impeller of the manometric switch.	1. Return valve set to position **2.** 2. Rinse Pump.
Pump doesn’t start or suddenly stops during operation.	No power.	Check fuses and electric connections.
	Circuit breaker has cut out the pump because of overloading.	Observe max. liquid temperature (35 °C).
	Electric failure.	Send the pump to one of our GARDENA Service Centres.
Pump switches on and off without drawing-off water for long intervals.	Leak on the pressure side.	Check the pressure line and connected consumers for leaks. The non-return valve shall be at position **RUN** when localising faults. Note: Even the smallest leak (loss of a few ml) can cause the pressure in the pump to drop. The cause of this is often small leaks at taps and toilet flushing cisterns.
Pump permanently switches on and off after drawing off water.	Switch / backflow valve set to **START.**	Set the switch to **RUN.**
	Larger leaks on the pressure side.	Rectify leaks.
Pump doesn’t start working.	Outlet end (e.g. water accessory) is closed. There is sufficient water pressure in the pressure line.	Open the outlet end.

If you have any problems with your Pressure Tank Unit, 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.

Technical Data

Type	**4000/4 i**	**4000/5 i**	**5000/4 i**	**5000/5 Inox i**
Art. No.	1481	1483	1485	1487
Rated power	800 W	1,000 W	800 W	1,300 W
Max. delivery capacity	3,600 l/h	3,600 l/h	5,400 l/h	4,600 l/h
Max. delivery head	44 m	50 m	38 m	52 m
Max. pressure (= cut-out pressure)	4.4 bar	5.0 bar	3.8 bar	5.2 bar
Cut-in pressure approx.	2.2 ±0,2 bar	2.2 ±0,2 bar	2.2 ±0,2 bar	2.2 ±0,2 bar
Max. suction head	9 m	9 m	8 m	9 m
Perm. internal pressure (delivery side)	6 bar	6 bar	6 bar	6 bar
Max. media temperature	35 °C	35 °C	35 °C	35 °C
Power cable	1.5 m H07 RNF	1.5 m H07 RNF	1.5 m H07 RNF	1.5 m H07 RNF
Mains voltage	230 V	230 V	230 V	230 V
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Weight	10.5 kg	11 kg	11 kg	13 kg
Noise level L_{WA} [1)]	measured 74 dB(A) guaranteed 75 dB(A)	measured 76 dB(A) guaranteed 79 dB(A)	measured 74 dB(A) guaranteed 77 dB(A)	measured 80 dB(A) guaranteed 81 dB(A)

1) Measuring method according to directive 2000/14/EC

Performance Characteristics (see cover)
Technical data of the above performance characteristics is measured at a suction height of 0.5 m, using a 25 mm (1″) suction hose.

Guarantee

GARDENA guarantees this product for 2 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 either replace the unit or repair it 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 and the filter are wearing parts and are not covered by the guarantee.

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

In the event of a fault, please send the defective unit together with the receipt and a description of the fault, postage paid, to one of the GARDENA Service Centres on the back of this leaflet.

Product liability

We expressly point out that, in accordance with the product liability law, we are not liable for any damage caused by our units if it is due to improper repair or if parts exchanged are not original GARDENA parts or parts approved by us, and, if the repairs were not carried out by a GARDENA Service Centre or an authorised specialist. The same applies to spare parts and accessories.

EU Certificate of Conformity

The undersigned

GARDENA Manufacturing GmbH · Hans-Lorenser-Str. 40 · D-89079 Ulm

hereby certifies that, when leaving our factory, the units indicated below are in accordance with the harmonised EU guidelines, EU standards of safety and product specific standards.

This certificate becomes void if the units are modified without our approval.

Description of the units:
Pressure Tank Units
electronic plus

Types:
4000/4 i, 4000/5 i, 5000/4 i,
5000/5 Inox i

Art. No.:
1481, 1483, 1485, 1487

Harmonised European standards:
EN 292-1
EN 292-2
EN 60335-1
EN 60335-2-41

EU directives:
Machinery Directive
98/37/EC : 1998
2006/42/EC : 2006
Electromagnetic Compatibility
2004/108/EC
Low Voltage Directive
2006/95/EC
Directive 93/68/EC
Directive 2000/14/EC

Year of CE marking:
1999

Ulm, 12.06.2002

Thomas Heinl
Technical Dept. Manager

Noise level:

	measured / guaranteed
1481	74 dB (A) / 75 dB (A)
1483	76 dB (A) / 79 dB (A)
1485	74 dB (A) / 77 dB (A)
1487	80 dB (A) / 81 dB (A)

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