

PP60 & PP10

EN

PERISTALTIC PUMP





General safety information

This user manual contains basic information that should be observed during assembly, start-up, operation, and maintenance. Therefore, this user manual must be read by installers and operators prior to assembly and start-up, and must be accessible to every user of this unit. Additionally, all further safety information in this document absolutely must be observed. Read and follow all instructions. In order to minimize the danger of injury, do not allow children to use this product. Hazards from non-compliance with safety information. Non-compliance with safety information can result in hazards to persons, the environment, and the equipment. Non-compliance with safety information will result in a forfeit of any potential right to damage compensation.

Insufficient personnel qualification

Hazards in the event of insufficiently qualified personnel, potential consequence: Injury, heavy material damage.

- The system operator must ensure compliance with the required qualification level.
- Any and all work may only be performed by correspondingly qualified personnel.
- Access to the system must be prevented for insufficiently qualified persons, e.g. via access codes and passwords.

Potential overdosing of chemical agents

Despite PP60 comprehensive safety functions, it is possible that a probe failure and other errors could lead to an overdosing of chemical agents. Potential consequence: Injury, heavy material damage.

- Design your installation such that uncontrolled dosage is not possible in the event of a probe failure or other errors, and/or such that uncontrolled dosage is recognized and halted before damage is incurred.
- Uncontrolled overdose of chemicals can cause harm to health and property. Even though the device contains a number of security elements can not be ruled out that in case of failure of the measuring probes, or the whole device may result in overdose of chemical agents. Install the equipment so that uncontrolled overdose of chemicals was not possible and that uncontrolled overdose has been detected in time before causing any harm. It is necessary to use chemicals in such quantities that an overdose will not cause dangerous concentration of chemical agents. Do not use chemicals in too large packages or with too high concentration.

Gaseous chlorine produced from dosing in standing water if dosing outputs are not closed via the filter pump

If the flow switch is stuck or experiences another error, there is a risk of dosing into standing water. Poisonous chlorine gas can be yielded when sodium hypochlorite and pH minus come together.

Non compliance with informational text

There is a great deal of informational text indicating hazards and their avoidance. Not observing informational text may lead to hazards. Potential consequence: gravest degree of injury, heavy material damage.

- Read all informational text carefully.
- Cancel the process if you are unable to exclude all potential hazards.

Use of new functions

Because of the continued development, a PP60 unit may contain functions, which are not completely described in this version of the user manual. The use of such new or extended functions without a profound and secure understanding by the operator may result in malfunctions and severe problems. Potential consequence: Injury, heavy material damage.

- Make sure to get a profound and secure understanding of a function and relevant boundary conditions, before you start to use it.
- Check for an updated version of the user manual or additional documentation available for the relevant functions.
- Make use of the integrated help function of the PP60 to get detailed information on functions and their parameter settings.
- In case it should not be possible to get a profound and secure understanding of a function based on the available documentation, do not use this function.

Overdosing if pH value is wrong

If disinfection is enabled before the pH value is stable in the ideal range of 7.0 to 7.4, then it may lead to heavy overdosing of chlorine or bromine. Potential consequence: Injury, heavy material damage.

- Do not start disinfection with chlorine until the pH value is stable in the ideal range between 7.0 and 7.4.

Conditions before using

Make sure you have a newest and updated version of the user manual and other documentation for all functions of the unit. Use and read the integrated help features. In case of not understanding the information about certain features of the unit, do not use these features.

Handling chemicals for pool water treatment

The chemicals used with the PP60 must be handled in a safe manner to prevent damage or personal harm. Aseko recommends you always use personal protective safety equipment when handling the pH and chlorine agents. Refer to the Materials Safety Data Sheet (MSDS).

WARNING: Never mix the pH agent with the chlorine agent. When carrying out maintenance on the clear plastic tubes or valves always rinse with clean water to prevent mixing of the pH and chlorine agents.



What is in the box

PP60 or PP10



Peristaltic pump
PP60 - 60 ml/min #12093
PP10 - 10 ml/min #12117

Injection valve 2 pcs
#12005



Suction tube weight
#12023



Dowels and screws



PE Tube 1/4" (6.35 mm)
transparent
#12008



Optional accessories

Inserting DN50 plug 1/4" threaded
#12134



Photometer
#13076



ASEKO Pool Tester
#12170



ASEKO original chemie

Volume 20 l

CHLOR Pure 20l #12075



OXY PURE #13038



ALGICID #12156



FLOC+C 20l #12139



Volume 5 l

CHLOR Pure 5l #12138



OXY PURE #13039



ALGICID #12157



FLOC+C #12138



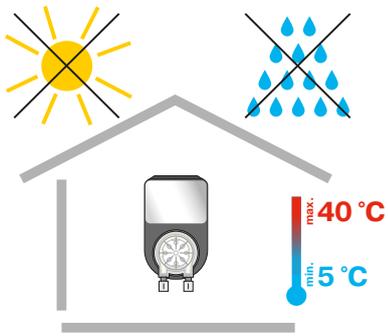
Peristaltic Pump PP60 and PP10



The peristaltic pumps PP60 and PP10 are suitable for dosing of aggressive chemicals e.g. acids, lyes and disinfection agents, especially for the treating of the pool water.

Technical description

Power supply	12 / 24 V
Power consumption	7 VA
Sicherung	T32 mA
Kategorie	II
Ingress protection	IP30
Operating temperature	+5 to +40°C
Weight	526 g
Installation	wall mounted
Pump output	PP60 – 60 ml/min, PP10 – 10 ml/min
Max. water pressure	1 bar
Dimensions	120 x 150 x 120 mm



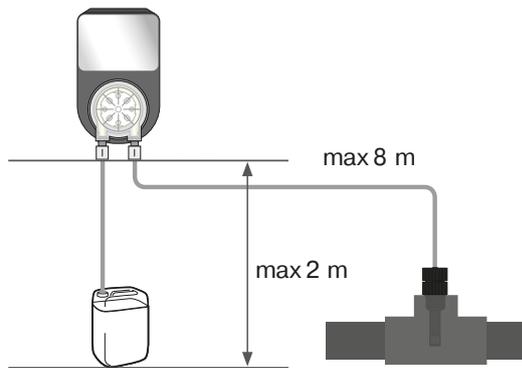
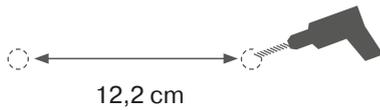
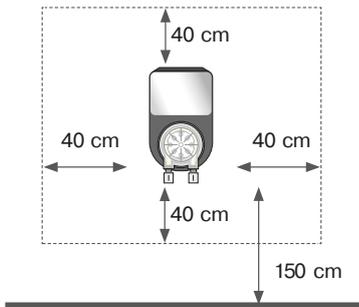
Installation

Peristaltic pump should be wall mounted in dry and dust-free environment with temperature ranging from +5 °C to +40 °C. To mount the device, use the mounting holes that are accessible after opening the front cover of the device. To mount the device use screws supplied with the device.

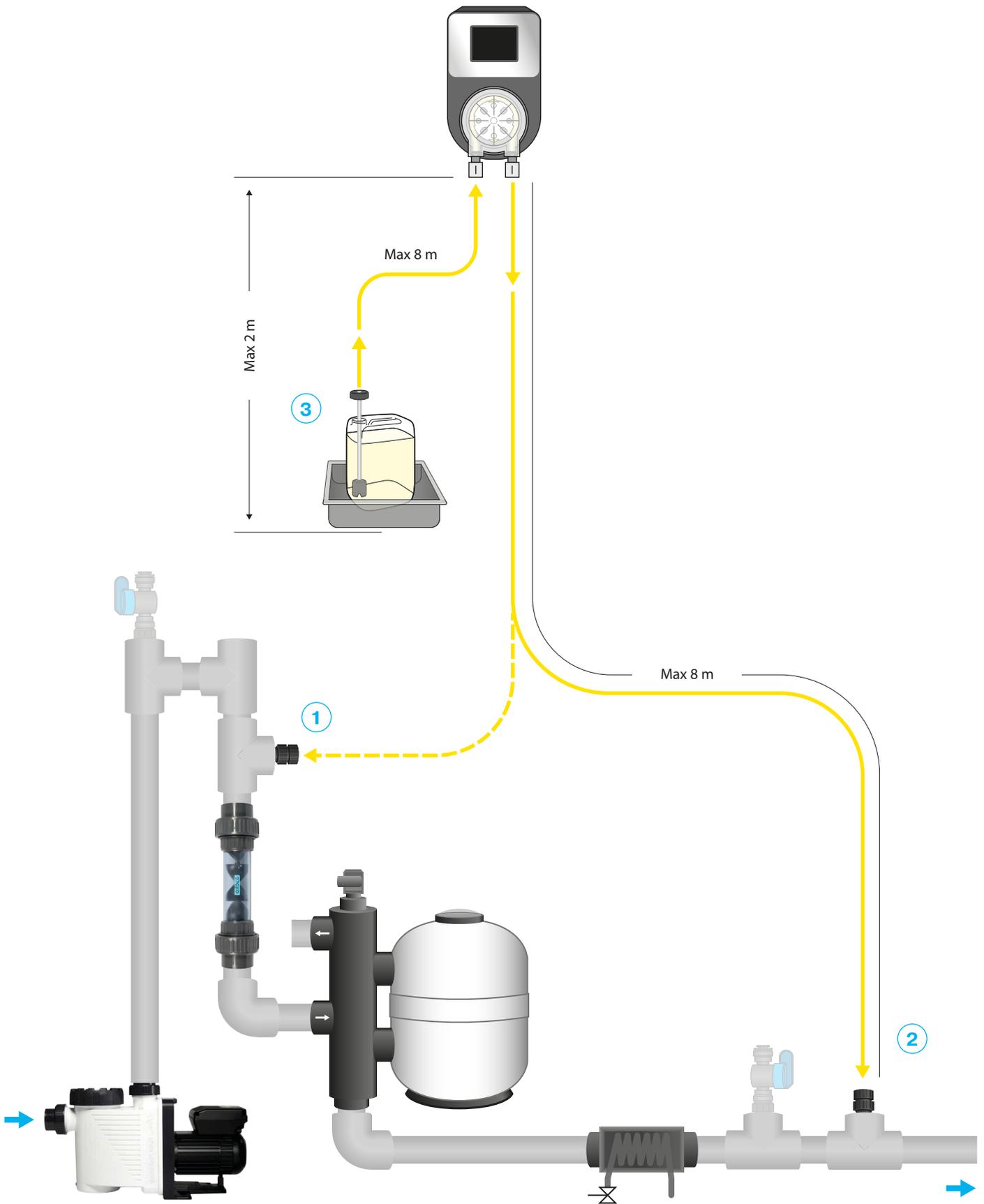
WARNING: The location temperature should permanently be in the range from +5 °C to +40 °C.

Direct sunlight, high humidity and dust may lead to damage to the peristaltic pump.

- Before installing, ensure that pool water is chemically clean and free of dirt.
- The maximum distance of injection valves from peristaltic pump must not be greater than 8 m.
- Vertical distance between peristaltic pumps and the bottom of containers must not exceed 2 m.



PP60 & PP10



Pool Chemicals Connection

Screw the **injection valve** in the glue head D50 with thread G1 / 4 " #12134, glued to the T-piece. **Tighten the injection valve into the head by hands only. Do not use pliers or other tools.**

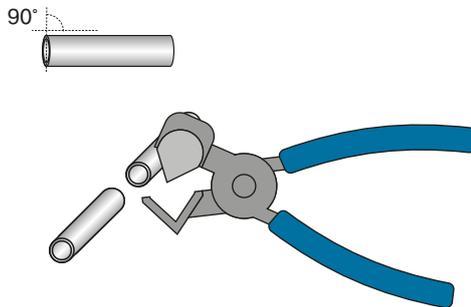
1 Connect the **FLOC+C INJECTION VALVE** to the pipe **before the coagulation mixer and before the filter and after the MEASURED WATER SUPPLY.**

2 Connect the **ALGICIDE, pH-, pH+ and CHLOR PURE or OXY PURE INJECTION VALVE** to the pipe **behind the filter and behind the MEASURED WATER DRAINAGE.** Connect injection valves in this order to prevent formation of lime scale.

To connect reagents from cans to the peristaltic pump and from the peristaltic pump to the injection valve use PE Tube 1/4 " (6.35 mm) #12008, which is part of the packaging.

WARNING

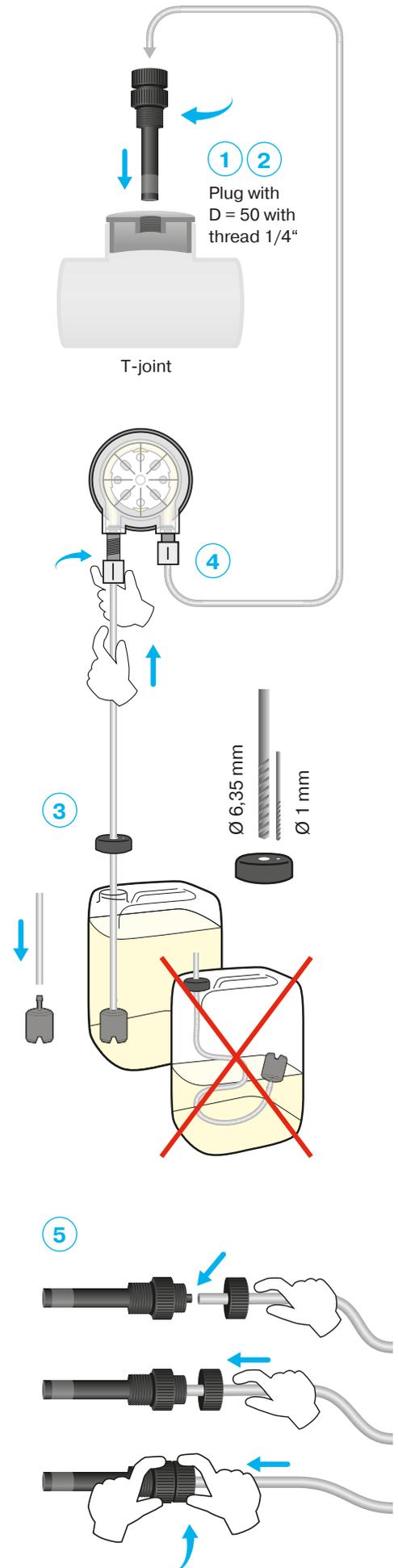
Cut the PE tube at an angle of 90° to ensure tight joints. The cut must be clean. Use special pliers #13325 to cut plastic tubes. Do not use common scissors or knives!



3 **CANISTER CONNECTION** Drill 6.35 mm and 1 mm diameter holes in the can's cap. Pass the tube through the hole in the cap so that it reaches the bottom of the can. Place the suction tube weight at the end of the tube.

4 **PUMP CONNECTION** Connect the can with the left (suction) connector of the pump using a PE tube from the can. Connect the **ALGICIDE, pH-, and CHLOR PURE or OXY PURE cannister with the peristaltic pump.**

5 **INJECTION VALVE CONNECTION** Pass the tube through the injection valve nut, connect the tube onto the injection valve and tighten the nut firmly by hand. Connect the tube from injection valve with the right (discharge) connector of the pump.



Initial start

Recommendation: Run the device in clean water without any pool products.

Recommendation: Test the connections of the connecting pipes. After starting the device, dosing starts. Visually check for leaks at any joint. After switching off the device, check that the liquid in the PE tube does not fall back. Test the connections tightness. In the settings menu, select **Test dose**. During this test, replace the chemical canister with containers of water to avoid chemical spillage.

Errors

Dosing pump does not dose

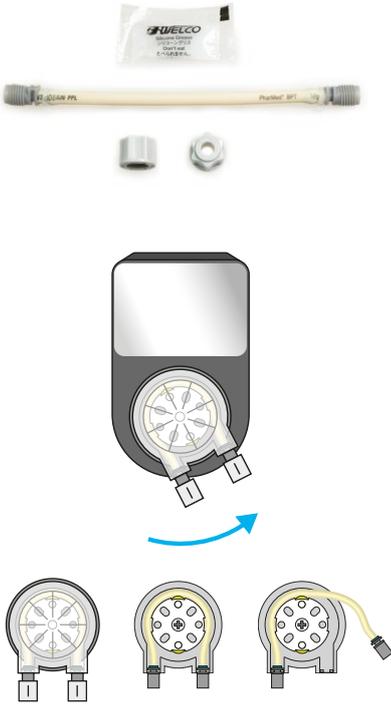
- Leakage in connection of PE tubes or they are damaged.
- Failure of dosing pump. Check whether pump is running. If so, check the hose inside the pump for damage or breakage and replace it, if required.

Injection valve clogged

- Impassable injection valve.
Check the valve for being clogged with impurities or deposits or the rubber seal for being damaged.
- Failure of dosing pump. Check whether pump is running.
If so, check the hose inside the pump for damage or breakage and replace it, if required.

Maintenance

#12073 Replacement tube kit



To ensure the optimum efficiency, perform visual checks and maintenance of peristaltic pumps on a regular basis.

Pump hose replacement

To prevent the pump from failing, it is recommended to replace the hose #12073 every 24 months.

In doing so, proceed as follows:

- Switch off the unit.
- Turn the pump cover cassette counterclockwise and take it out
- Release both hose ends and take it out of the cassette.
- Lubricate the new hose with the supplied special grease.
- Insert the lubricated hose into the cassette.
- Place the cover cassette back and turn it clockwise to lock it.
- Use new nuts, which are part of the replacement hose set, for connection of the PE tube.

Injection valve maintenance

On a regular basis, check throughput of the injection valves, rubber band integrity, remove scale and impurities.

In case of private pools, replace injection valve rubber bands every 2 years. In case of public pools, replace injection valve rubber bands every year.

#12005 Injection valve



#13087 Injection valve rubber



Fuse T 80 mA #13095



Fuse replacement

If the input voltage to the peristaltic pump is OK and the pump does not work, the mains fuse may have failed. The fuse is located on the PCB inside of the device. To replace the fuse follow the procedure below:

1. unplug the power cord
2. unscrew and remove the front cover of the device
3. replace fuse T 80 mA with a new one.
4. restore the device to its original state



USER MANUAL

PP60 & PP10

