

# PUNDMANN

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# fluviLOOP

the 5 litre endless shower

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**Operating and assembly instructions**

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# Table of Contents

1 Introduction .....	3
1.1 General.....	3
1.2 Safety instructions .....	3
2 Description of the fluviLOOP .....	3
2.1 How it works.....	3
2.2 Use and intended use.....	4
2.3 Features.....	4
2.4 Technical Data .....	4
3 Installation of the fluviLOOP.....	5
3.1 General Installation Notes.....	5
3.2 3-Way Ball Valves (Bypass) .....	6
3.3 Sewage pipe and suction tee .....	6
3.4 Shower drain.....	8
3.4.1 Installation.....	8
3.5 Control unit (LED button).....	8
3.6 12V fuse .....	9
4 Operation .....	9
4.1 Operational information.....	9
4.2 Commissioning .....	9
4.3 Operation .....	9
4.4 Decommissioning.....	10
4.5 Care instructions .....	10
4.7 Troubleshooting .....	10

# 1 Introduction

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## 1.1 General

This instruction manual is intended for the safe and application-oriented handling of the fluviloop shower system from Pundmann. It must be read in full before the start of the assignment; all information on safety and professional handling must be observed and followed.

The operating instructions are part of the vehicle's equipment and must be kept accessible to all users at all times. It describes the current status of the product; any additions and adjustments will be added.

→ Please read this guide carefully to ensure proper operation.

## 1.2 Safety instructions

The following instructions must be strictly observed:

**⚠ The shower water is not drinking water.**

If no thermostatic shower faucet is used, there may be greater temperature fluctuations in exceptional cases. This is especially true when switching off the circulation mode. In circulation mode, the maximum temperature is limited to 45 °C.

→ A thermostatic shower faucet is strongly recommended.

The fluviloop is supplied exclusively with 12 V on-board voltage. Low-voltage cables must also be professionally laid, connected and secured.

# 2 Description of the fluviloop

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## 2.1 How it works

The fluviloop uses shower water in the circuit. The following principles are important:

- Each shower guest receives fresh water at the beginning of their showering process.
- Each shower guest can decide for themselves at any time whether they want to use fresh water or activate the recirculation mode.
- The shower is used like a conventional shower. The only distinguishing feature is a luminous, waterproof LED button to activate the cycle mode.

The shower process starts as usual: After opening the shower mixer and pressing the LED button for recirculation, the cycle starts automatically. The shower water that has just been used is vacuumed, disinfected, reheated and returned to the shower. Depending on the distance between the shower and the fluviloop unit, there are approx. 2.5 litres of water in the circuit.

The shower water is reheated via a plate heat exchanger using boiler water. All common boiler systems are compatible, including Alde, Timberline and Truma Combi. Air heaters with air-heated boilers are also supported – tests were carried out with the Autoterm air heater in combination with the Pundmann Air Boiler 6/9 L, among others.

The boiler water for reheating is circulated by a separate fluviLOOP pump (fluviLOOP ↔ boiler). The boiler water is not consumed, but only the energy it contains is used to heat the cooled shower water. The plate heat exchanger ensures hygienic system separation between boiler water and shower water.

Once the shower process is complete, the system automatically flushes itself through 4 minutes after the last water flow. This consumes approx. 0.4 litres of hot fresh water. The system is then ready for the next shower guest.

## 2.2 Use and intended use

The fluviLOOP is intended exclusively for use inside the vehicle. Installation outside the vehicle is not planned; operation under such conditions is at your own risk and will void the warranty.

**⚠ In case of excessive soiling (e.g. dirty dogs, dirty mountain boots), the shower must not be used as a cleaning station. Improper use is clearly identifiable in the event of damage and subsequent inspection.**

The inline filter in the wastewater pipe should be checked at regular intervals at the beginning to determine how often cleaning is necessary. This can vary greatly depending on usage patterns.

## 2.3 Features

- Water consumption per shower: approx. 5 litres
- Activation/deactivation of the circuit mode via waterproof LED button
- Shower temperature is controlled via the existing shower faucet
- Disinfection by UV-C unit (maintenance-free)
- In-line wastewater filter
- Automatic flushing of the entire system 4 minutes after the end of the shower
- Then complete readiness for the next shower guest

## 2.4 Technical Data

### Electrical data

Parameter	Value
Input voltage	11 – 15 V DC

Rated current	20 A
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### Hydraulic data

Parameter	Value
Maximum hot water inlet temperature	78 °C
Nominal overpressure fresh water connection	4 bar
Maximum pressure shower water circuit	4 bar

### Dimensions and weight

Parameter	Value
Weight of technical unit	10 kg
Width	26 cm
Depth	50 cm
Height	28 cm

### Connections

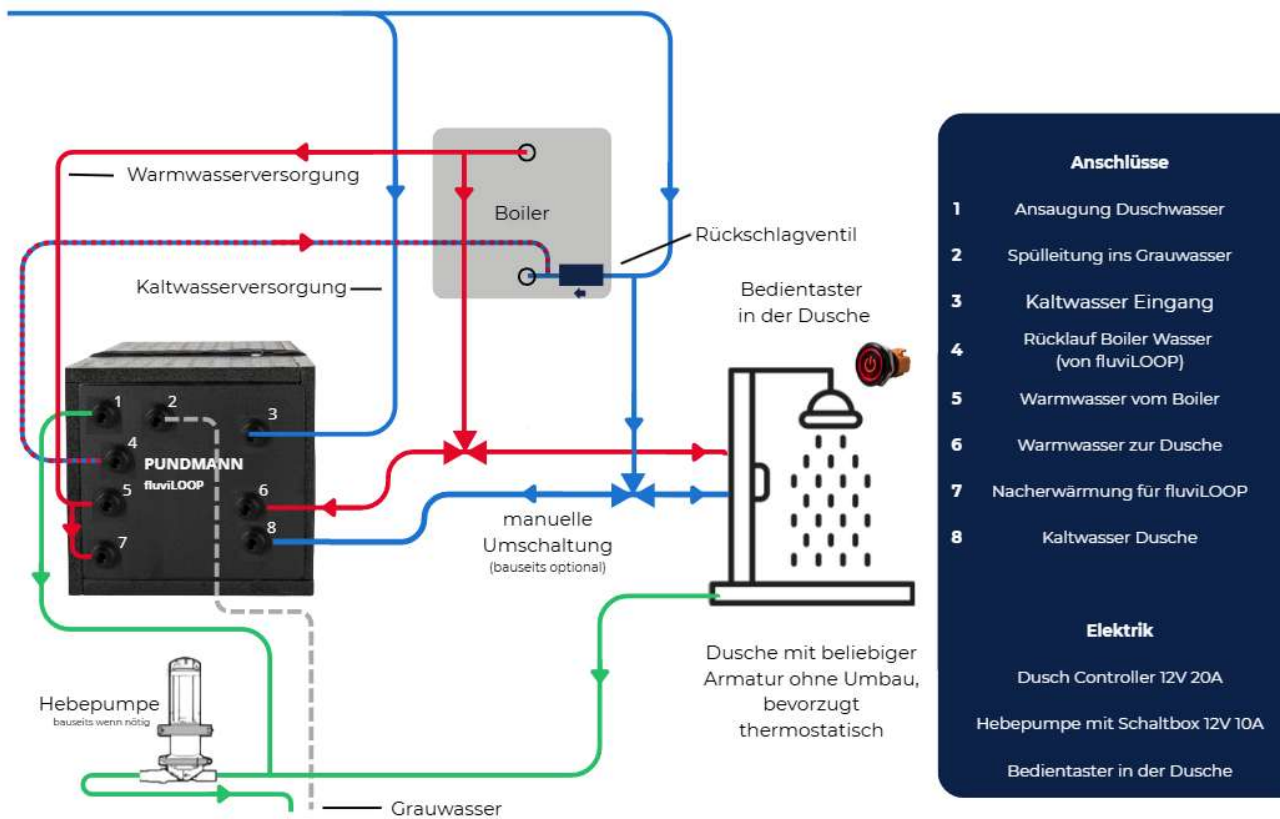
Parameter	Value
Water connections	Pushfit connector 12 mm
Scope of Delivery	Adapter to 10 mm hose included

## 3 Installation of the fluviLOOP

### 3.1 General Installation Notes

The fluviLOOP is installed as close as possible to the shower. Depending on how the supply lines are laid, it can be helpful to insulate the hot water pipes – this applies in particular to the return line to the boiler.

The original cold and hot water pipes to the shower are connected to the fluviLOOP according to the connection diagram. All other lines must also be laid and connected according to the connection diagram.



### 3.2 3-Way Ball Valves (Bypass)

The connection diagram shows two manual 3-way ball valves. These are optional, but are expressly recommended by Pundmann.

→ In the event of a technical problem with the fluviLOOP, these two valves can be rearranged so that the shower can continue to be used like a conventional shower.

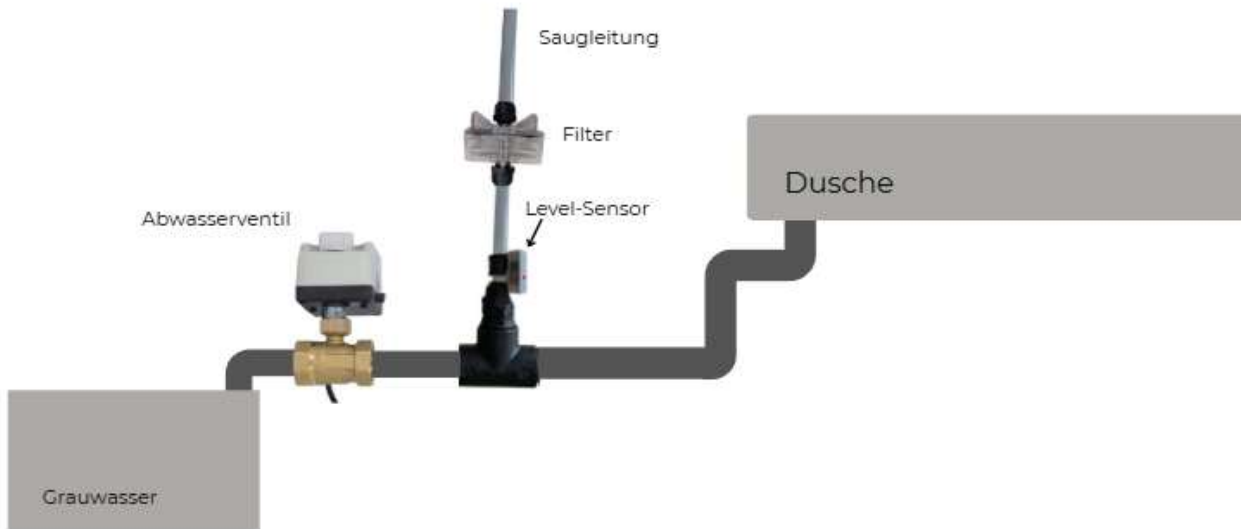
### 3.3 Sewage pipe and suction tee

The wastewater pipe of the shower – and exclusively of the shower – must be interrupted in accordance with the attached illustration and supplemented with the suction T-piece supplied.

Care must be taken to form a sac (depression), which forms a light reservoir. The fluviLOOP sucks the used shower water from this reservoir. As long as the basic principle is adhered to – a small depression as a reservoir – the installation can be designed in a variety of ways. The installations are always individual and require good preparation and material procurement.

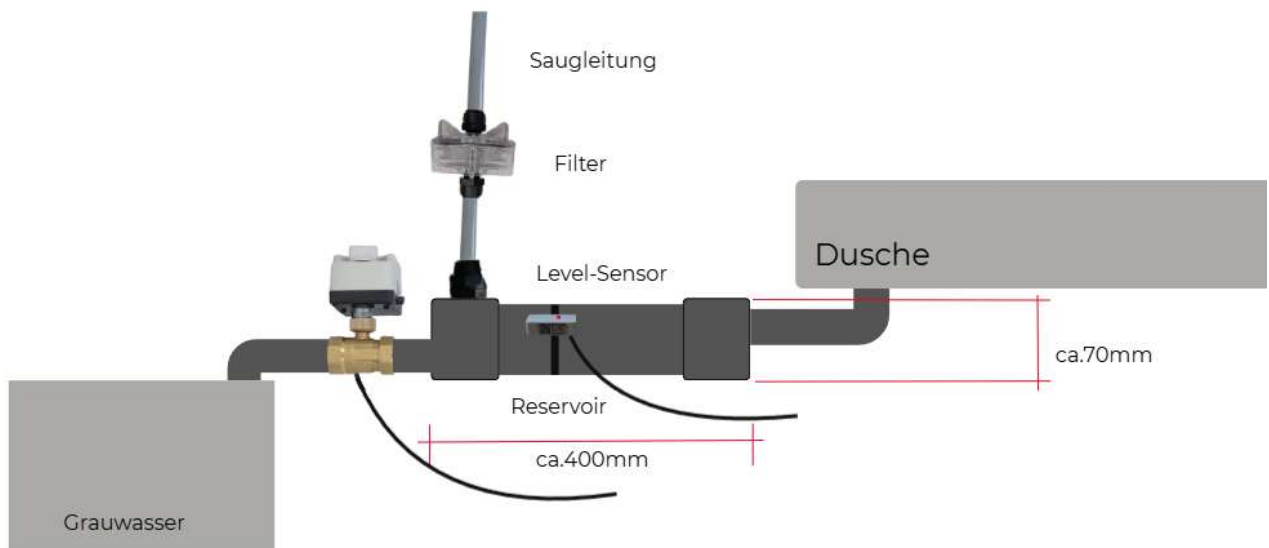
### Installation Suggestion 1

Direct accumulation of circulation water in the sewer line.



### Installation Suggestion 2

If the accumulated water volume is less than 1000 ml, the optionally available reservoir can be used. A siphon can be installed as an option.



→ This arrangement ensures that the drainage of the shower continues to function even without active fluviloop (gravity drainage is maintained).

**⚠ If the wastewater has to be pumped afterwards due to the height of the tank and shower tray, a corresponding lifting pump must be provided on site.**

→ Good accessibility of the filter unit in the wastewater pipe makes regular cleaning much easier. This should already be taken into account when planning the installation situation.

### 3.4 Shower drain

#### 3.4.1 Installation

The shower drain is installed according to the supplied connection diagram. Please take into account the individual circumstances of your vehicle and plan the installation situation carefully in advance.

### 3.5 Control unit (LED button)

The waterproof LED button for activating the circuit mode must be mounted in the immediate vicinity of the shower faucet and wired according to the connection diagram.

#### Pushbutton functions

Parameter	Value
Quick Tip (< 2 seconds)	Start recirculation (standby) / stop (running)
Hold ≥ 15 seconds	Factory reset – deletes all settings incl. Wi-Fi credentials

**⚠ Use a factory reset only if the device is unresponsive or should be set up again.**

#### LED feedback

Parameter	Value
Off	Standby
Permanently on	Active recirculation
Slow flashing	Waiting for water
Fast flashing	Rinsing cycle running
Fast flashing (when holding)	Factory reset threshold reached – let go now

→ The 2-10 seconds range is a deliberate inactive zone and does not trigger any action.

## 3.6 12V fuse

The fluviloop is supplied via the vehicle's on-board electrical system (12 V DC). The protection of the supply line must be provided for on site.

Parameter	Value
Main fuse (on-site)	20 A

→ If the lead wire is extended, the cable cross-section must be adjusted according to the line resistance to avoid voltage drop and heating.

# 4 Operation

## 4.1 Operational information

The operation of the fluviloop requires professionally executed installation in accordance with Chapter 3. All instructions from Chapter 1.2 (Safety instructions) must be observed during the entire operation.

## 4.2 Commissioning

When commissioning, check all water and cable connections for tightness and tightness. Remove the hood by opening the Velcro straps. Carry out a visual inspection when printing is pending as well as during test operation.

**⚠ Pundmann is not liable for damage caused by leakage.**

All devices go through a complete acceptance procedure before delivery, in which all operating modes are tested. Only 100% leak-proof systems are delivered.

## 4.3 Operation

The shower process is as follows:

1. Open the shower faucet and set the desired water temperature.
2. To activate the cycle mode, press the LED button – the LED will light up or flash slowly until enough water has been collected.
3. The shower water is now sucked in, disinfected, reheated and recharged. LED lights up permanently.
4. To deactivate the cycle mode, press the LED button again.
5. Close the shower faucet. The system flushes automatically 4 minutes after the last water flow. LED flashes rapidly.

If the faucet is closed without ending the circuit mode (no problem), the LED will light up for another 4 minutes until the system goes into flush mode, which is signaled with a quick flash.

## 4.4 Decommissioning

To decommission, remove the fuse provided by the customer or operate a suitable switch installed in the supply line. The fluviloop is then de-energized and out of operation.

## 4.5 Care instructions

The following maintenance measures must be carried out for long-term flawless operation:

- Check inline filters regularly and clean them if necessary.
- Determine the frequency of filter cleaning individually (depending on usage behavior).
- Visual inspection of all hose connections for leaks at regular intervals.
- UV-C disinfection unit is maintenance-free; no action required.

## 4.7 Troubleshooting

Symptom	Possible cause	Action
Cycle does not start	LED button not operated	Press the button, check the LED lights
Cycle does not start	Fuse Triggered	Check fuse (20 A) and replace if necessary
Pressure drop in the system	In-line filter clogged	Remove and clean filters
Temperature fluctuations	No thermostatic fitting, heating out of order	Retrofitting a thermostatic shower faucet
Water loss visible	Leaking hose connection	Check all connections; Tighten the hose clamps
System does not flush automatically	Power supply interrupted	Check on-board power supply voltage and fuse
Boiler water is not circulated	Boiler pump defective or line blocked	Check pipes for flow; Contact Pundmann