PAUL®: the Waterbackpack for emergencies



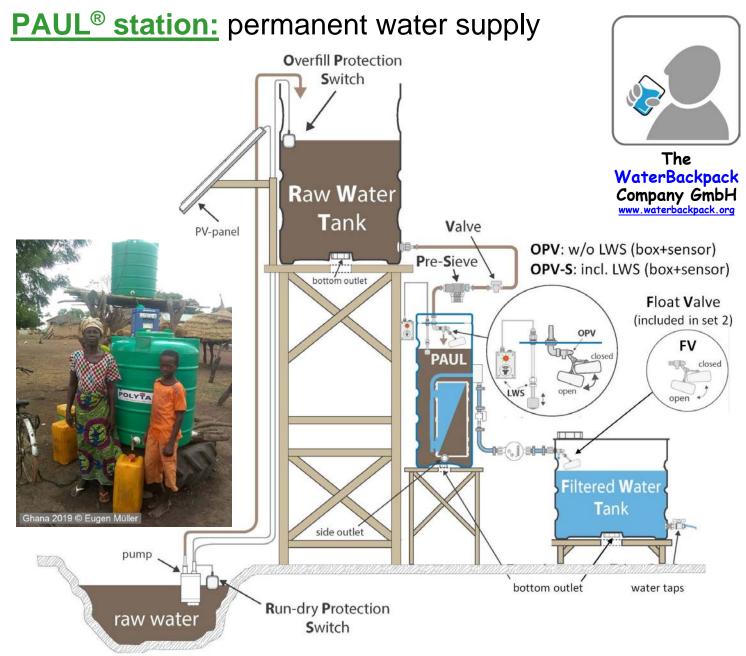




The
WaterBackpack
Company GmbH
www.waterbackpack.org

PAUL® standard unit 1,500.00 € 40 x 40 x 106 cm 23 kg min 1,200 Liter per day

All prices excl. VAT and EXW Kassel/Germany
All prices are valid starting 01.06.2022 and are subject to change without prior notice



Parts and prices

PAUL® station	minimum	essential		
PAUL standard unit	1,500 €			
OPV Overfilling Prevention Valve – please see note!	130 €			
OPV-S OPV with sensor+LWS box - please see note!	320 €			
Set 1: connection RWT to PAUL (incl. RWT connector, sieve, valve, hose etc.)		180 €		
Set 2: connection PAUL to FWT (incl. flowmeter, float valve, hose etc.)		210 €		
Set 3: side outlet with transparent hose		35 €		
Set 4: outlet for FWT		80 €		
1,63	0 €/1,820 €	505 €		
<u>note</u> : either OPV or OPV-S is necessary for permanent supply!				
Also available (first, please check local conditions):				

All prices excl. VAT and EXW Kassel/Germany

55 €

55 €

Overfilling Prevention Switch for the RWT

Run-dry Prevention Switch for the pump

OPS

RPS

All prices are valid starting **01.11.2022** and are subject to change without prior notice We do **not** offer pumps, hose from water supply to RWT, tanks (RWT, FWT) and stands, as these items can best be provided locally

PAUL® / PAUL® station order form

Herewith I order the following:

Quantity	Item	unit price	total
pcs	PAUL® standard unit including printed manual in ☐ English ☐ French	1,500.00 €	€
DCS	OPV (to set up a PAUL® station, either OPV	130.00 €	€
•	OPV-S or OPV-S is necessary)	320.00 €	
pcs	Set 1: Connection from RWT to PAUL® incl. 1" RWT connector with valve, sieve, hose and parts	180.00 €	€
pcs	Set 2 : Connection from PAUL® to FWT incl. flow meter float valve for FWT, hose and parts	210.00 €	€
pcs	Set 3: side outlet with transparent hose and parts	35.00 €	€
pcs	Set 4: outlet for FWT including FWT connector and valve, 1" diameter	80.00 €	€
Depending	g upon local circumstances, also these items can be hel	pful:	
pcs	OPS: Overfilling Prevention Switch for RWT	55.00 €	€
pcs	RPS: Run-dry Prevention Switch for the pump	55.00 €	€
Also avail	able:		
pcs	Replacement membrane module membrane area	600.00 €	€
All prices	excl. VAT and EXW Kassel/Germany_ total	l amount	€
Country of	of <u>destination</u> :		
	location of destination:		
Address in	nvoice Address delivery		
Pla	ce and date		_
Sig	nature		_

Important! With my signature I also assure that

U will follow the notes as outlaid on the next page and **submit feedback** as soon as possible to frechen@uni-kassel.de

- 1. For the benefit of all PAUL users, I collect flow data. There are two ways to measure:
 - a. If you operate a <u>PAUL station with water meter</u>, then the procedure is described in the <u>manual in chapter 6.2.2.</u>
 - Below is attached the **form** with the help of which this can be done.
 - The manual asks for a <u>weekly measurement</u>, which I think would be wonderful, but even <u>monthly measurements</u> would be a great help to all users of **PAUL**, so my strong request is that such results be sent to me.
 - b. For PAUL without water meter: Fill PAUL completely, filter into a bucket and measure the time necessary to fill that bucket. Then please let me know date&time, the volume of the bucket filled, the time necessary, the location and the PAUL serial number stamped on the top cover.
 - c. It would be very helpful if you would take such measurements **periodically**, preferably right at the beginning and then at (ever increasing) intervals....,
- 2. I would also be very grateful for <u>text and picture material</u>, in order to also gain infos the use of **PAUL** and its installation/operation environment. Please <u>give me your consent</u> to use this material (pls indicate the <u>appropriate copyright text</u>, e.g. date&time, location <u>author....</u>).
- **3.** Before setting up a <u>PAUL station</u>, think about the following <u>advices</u> and <u>see the assembly</u> <u>video</u> on www.waterbackpack.org:
 - a. In order to mount the hose from the Raw Water Tank RWT to the hose connection on the OPV and to be able to work on the top of **PAUL** if necessary, I recommend to leave a headspace above **PAUL**. The more you provide, the easier, see also next point!.
 - b. The OPV is hinged on one side. The purpose of this is to be able to fill in water manually even when **PAUL** is permanently installed, either with a bucket (headspace needed, see previous point) or via a hose etc.. The purpose is described in **chapter 6.4.2** of the manual. Then, of course, temporarily shut off the inflow from the RWT with the valve in the hose (**operating point!**).
 - c. The side drain (seen from the front) at the <u>bottom left</u> of **PAUL** (see Manual, fig. 12) is an <u>operating point</u> and thus should be <u>easily accessible</u> both for <u>daily water level</u> <u>checks</u> and for <u>weekly draining of the sediment</u>, see Manual Chap. 6.1.1 and 6.2.1.
 - d. The <u>strainer</u> in the hose from the RWT to the OPV and the <u>valve there</u> are also <u>operating points</u>. It is recommended to arrange both in such a way that easy access is ensured (e.g. close to the side drain).
- **4.** The rule for **PAUL** (also within a **PAUL** station arrangement) is that the <u>membrane must not</u> dry out **completely**. However, a break of a few days is not harmful! **See next point!**
- 5. Note: when stopping filtration, always close valve after PAUL first to ensure that PAUL still at least is halfway filled with water!
- 6. If any issues arise with your PAUL/PAUL station: we try our best to help, but you have to provide reasonable material: as many photos as possible of all aspects of installation, high quality photo of filtered water vs. raw water in glass, description of plant operation before the event, measurement results (see point 1 above!), any analytical results etc.etc.

Weekly Maximum Filtration Test (see footnote / Manual Chapter 6.2.2)

Location:		
PAUL S/N:	please return data to	frechen@uni-kassel.de

		•				
	Start test			End test		Remarks
Date	Time	Count	Date	Time	Count	signature
	hh:mm:ss			hh:mm:ss		-
15.02.19	11:02:00	12.214	15.02.19	11:17:00	12.242	this is a sample
	::			::		
				·		
	::			::		
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- 1. Assure that PAUL is filled up and enough water is in the RWT.
- 2. Assure that the effluent of PAUL is open. If FWT is connected, float valve in the FWT must be fully open.
- 3. Note all digits of the water meter, including the three red ones, see Figure 16, and the exact date and time
- 4. Let PAUL filter at least 10 minutes (or more) and then again note all digits and the exact date and time