

PAUL®: the Waterbackpack for emergencies



The
WaterBackpack
Company GmbH
www.waterbackpack.org

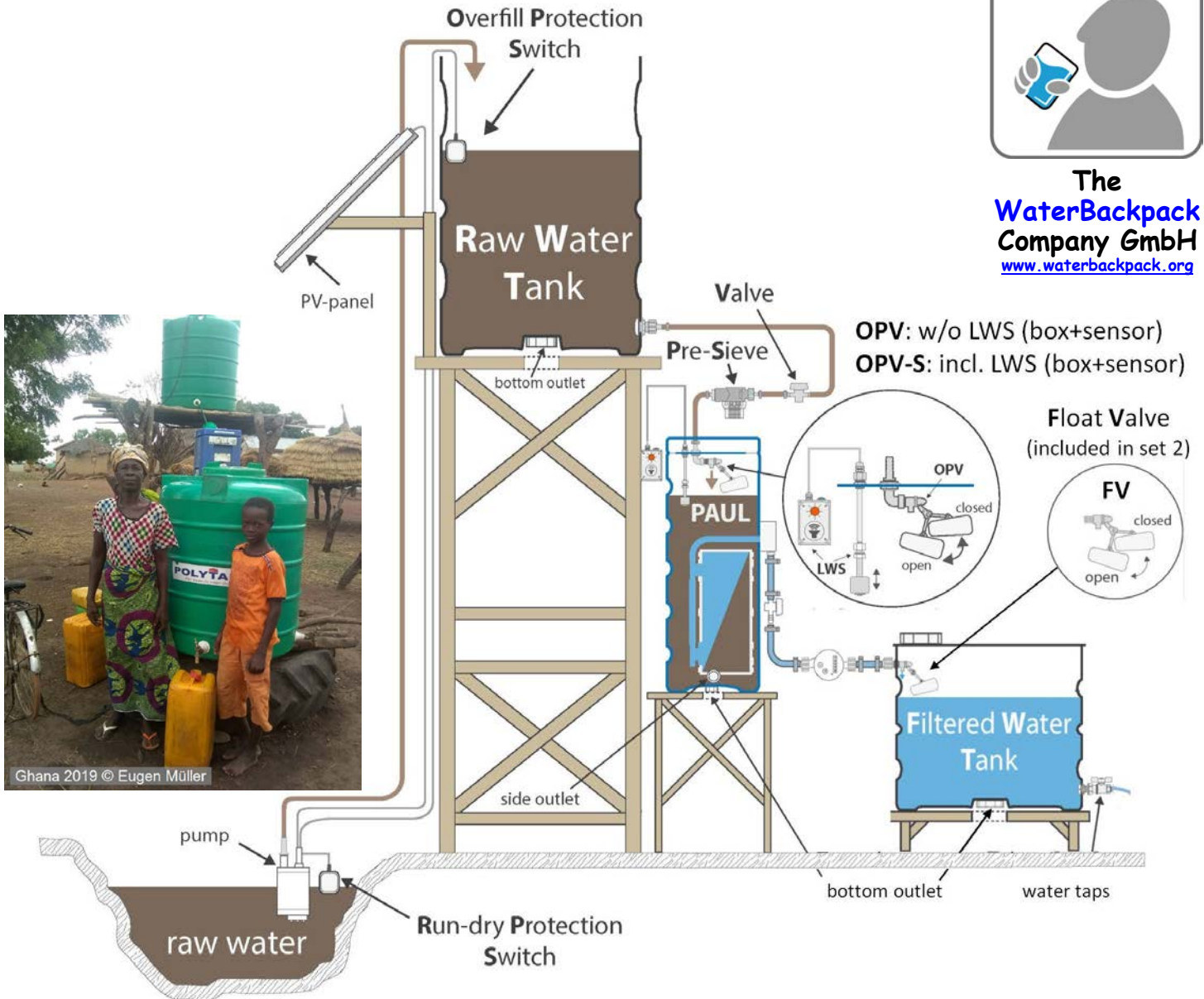
PAUL® standard unit – for humanitarian use 1,200.00 €
40 x 40 x 106 cm 23 kg min 1,200 Liter per day

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

PAUL[®] station: permanent water supply



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Ghana 2019 © Eugen Müller

Parts and prices – humanitarian use

PAUL [®] station	minimum	essential
PAUL standard unit	1,200 €	
OPV Overfilling Prevention Valve – please see note!	100 €	
OPV-S-OPV with sensor+LWS box – please see note!	280 €	
Set 1: connection RWT to PAUL (incl. RWT connector, sieve, valve, hose etc.)		110 €
Set 2: connection PAUL to FWT (incl. flowmeter, float valve, hose etc.)		120 €
Set 3: side outlet with transparent hose		20 €
Set 4: outlet for FWT		50 €
	1,300 €/1,480 €	300 €

note: either **OPV** or **OPV-S** is necessary for permanent supply!

Also available (first, please check local conditions):		
OPS Overfilling Prevention Switch for the RWT		40 €
RPS Run-dry Prevention Switch for the pump		40 €

All prices **excl. VAT** and **EXW Kassel/Germany**

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 <input type="checkbox"/> English <input type="checkbox"/> French	1,200.00 €	_____ €
___	pcs OPV (to set up a PAUL® station, either OPV	100.00 €	_____ €
___	pcs OPV-S or OPV-S is necessary)	280.00 €	_____ €
___	pcs Set 1: Connection from RWT to PAUL® incl. 1" RWT connector with valve, sieve, hose and parts	110.00 €	_____ €
___	pcs Set 2: Connection from PAUL® to FWT incl. flow meter float valve for FWT, hose and parts	120.00 €	_____ €
___	pcs Set 3: side outlet with transparent hose and parts	20.00 €	_____ €
___	pcs Set 4: outlet for FWT including FWT connector and valve, 1" diameter	50.00 €	_____ €
Depending upon local circumstances, also these items can be helpful:			
___	pcs OPS: Overfilling Prevention Switch for RWT	40.00 €	_____ €
___	pcs RPS: Run-dry Prevention Switch for the pump	40.00 €	_____ €
Also available:			
___	pcs Replacement membrane module membrane area <input type="checkbox"/> 10 m ² (standard type) <input type="checkbox"/> 6 m ² (in case of extreme solids)	600.00 €	_____ €

All prices **excl. VAT** and **EXW Kassel/Germany** total amount _____ €

Country of destination: _____

City/GPS location of destination: _____

Address **invoice**

Address **delivery**

_____	_____
_____	_____
_____	_____

Place and date _____

Signature _____

phone no. _____

Important! With my signature I also assure that

☺ All goods ordered herewith are strictly for **humanitarian use** which I will **testify appropriately**

☺ I will follow the notes as outlaid on the next page and **submit feedback** as soon as possible to paul@waterbackpack.org

1. For the benefit of all **PAUL** users, I collect **flow data**. There are two ways to measure:
 - a. If you operate a PAUL station with water meter, then the procedure is described in the manual in chapter 6.2.2.
Below is attached the **form** with the help of which this can be done.
The manual asks for a weekly measurement, which I think would be wonderful, but even **monthly measurements** 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 **text and picture material**, in order to also gain info on the use of **PAUL** and its installation/operation environment. Please **give me your consent** to use this material (pls indicate the appropriate copyright text, e.g. date&time, location author....).
3. Before setting up a PAUL station, think about the following **advices** and **see the assembly video** 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 bottom left of **PAUL** (see Manual, fig. 12) is an **operating point** and thus should be **easily accessible** both for daily water level checks and for weekly draining of the sediment, see Manual Chap. 6.1.1 and 6.2.1.
 - d. The **strainer** in the hose from the RWT to the OPV and the **valve there** are also **operating points**. 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 **membrane must not 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.

