WASH-Products

for Humanitarian Use

Resylia GmbH – Disaster Relief Systems

Reliable Disaster Relief

In a world facing increasing population pressure, environmental destruction, and climate crises, our vision is a future in which every person, regardless of their circumstances, has access to clean water and vital aid. With natural disasters claiming an average of 60,000 lives each year, we believe that systematic and increased humanitarian action can save lives. Because we consider drinking water and sanitation to be fundamental human rights, we are committed to developing effective and reliable equipment that meets the urgent needs of communities in crisis situations. We have strong partnerships with international institutions and work closely with humanitarian organizations to identify technological gaps and promote resilience, ultimately creating a safer and more sustainable world for all.

150
organizations and institutions in our Network

40
countries on 4 continents we support

10+
years of experience in disaster relief

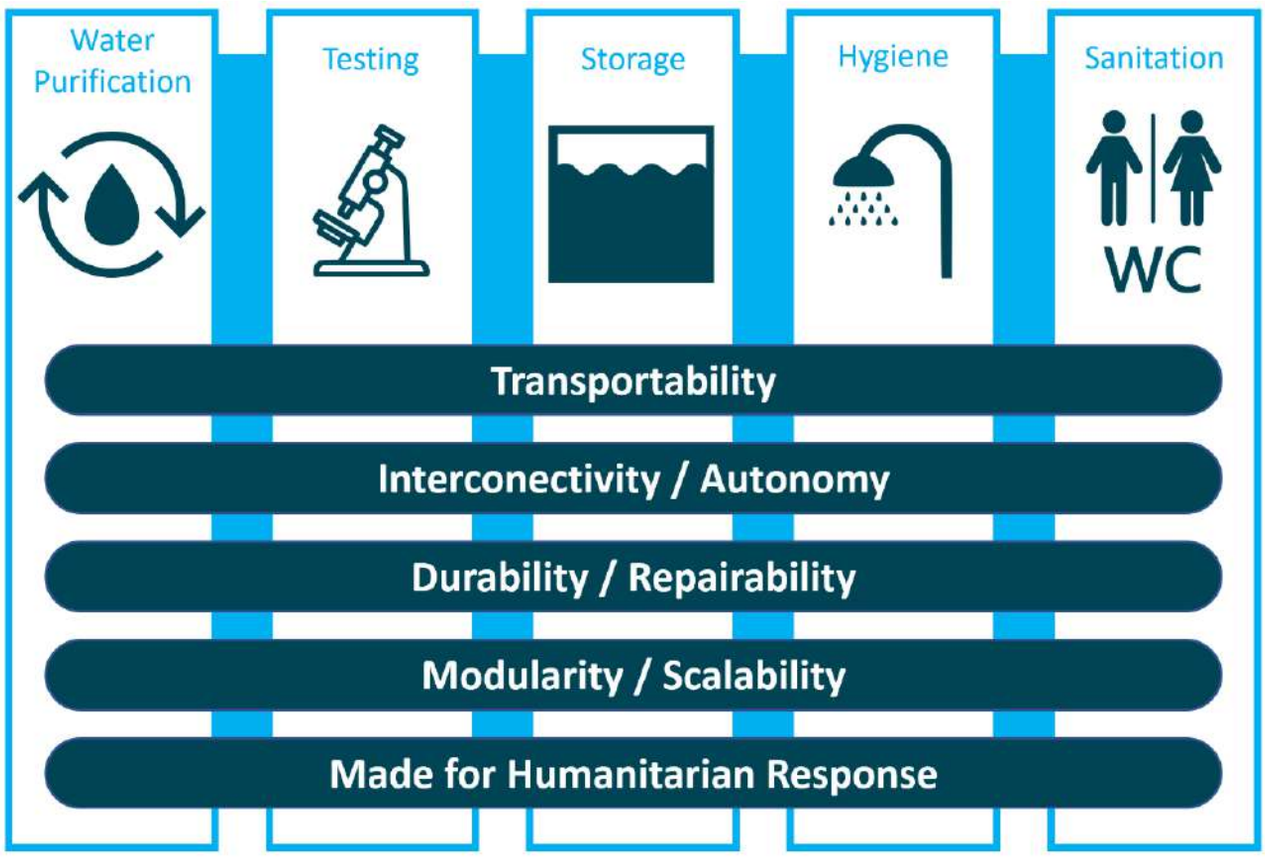
Innovative solutions for a resilient society

Our goal is to improve the effectiveness of humanitarian aid in disaster situations by developing reliable, portable, and user-friendly technical solutions. We focus on developing state-of-the-art, standardized aid systems that enable organizations and institutions to provide immediate assistance. Our products are designed to meet the needs of emergency responders in terms of robustness, transportability, repairability, modularity, and autonomous operation. By prioritizing innovation and production efficiency, we aim to transform disaster relief and improve the lives of those affected.

Wide range of products

Given the importance of water for human existence, access to clean and safe drinking water is at the heart of the Disaster Relief Systems brand. This is reflected in the water treatment systems of the SAS-W product range, designed to supply small towns and villages, and the COM-W range, which are compact enough to be carried by one person and can be powered by solar energy. In addition, Resylia GmbH offers mobile showers, decontamination cabins, and toilets, known as FIELDMODULES. These complement the water treatment systems and enable customers to purchase all the WASH products they need from Resylia GmbH. For customers, this means that all technical requirements for field use can be handled by a single central provider. In this way, the WASH sector in humanitarian aid, with its drinking water treatment, provision of sanitary facilities, wastewater treatment and purification, and testing, is a self-contained product system. The advantage for customers also lies in the technical coordination of all system components and modules with each other. The infrastructure that can be implemented with the modules in the field can thus be easily adapted to all conceivable requirements and is also scalable in rapidly changing operational situations.

In one system



Everything required will be provided

A. **Mobile water purification unit**
(Pages 5-7)

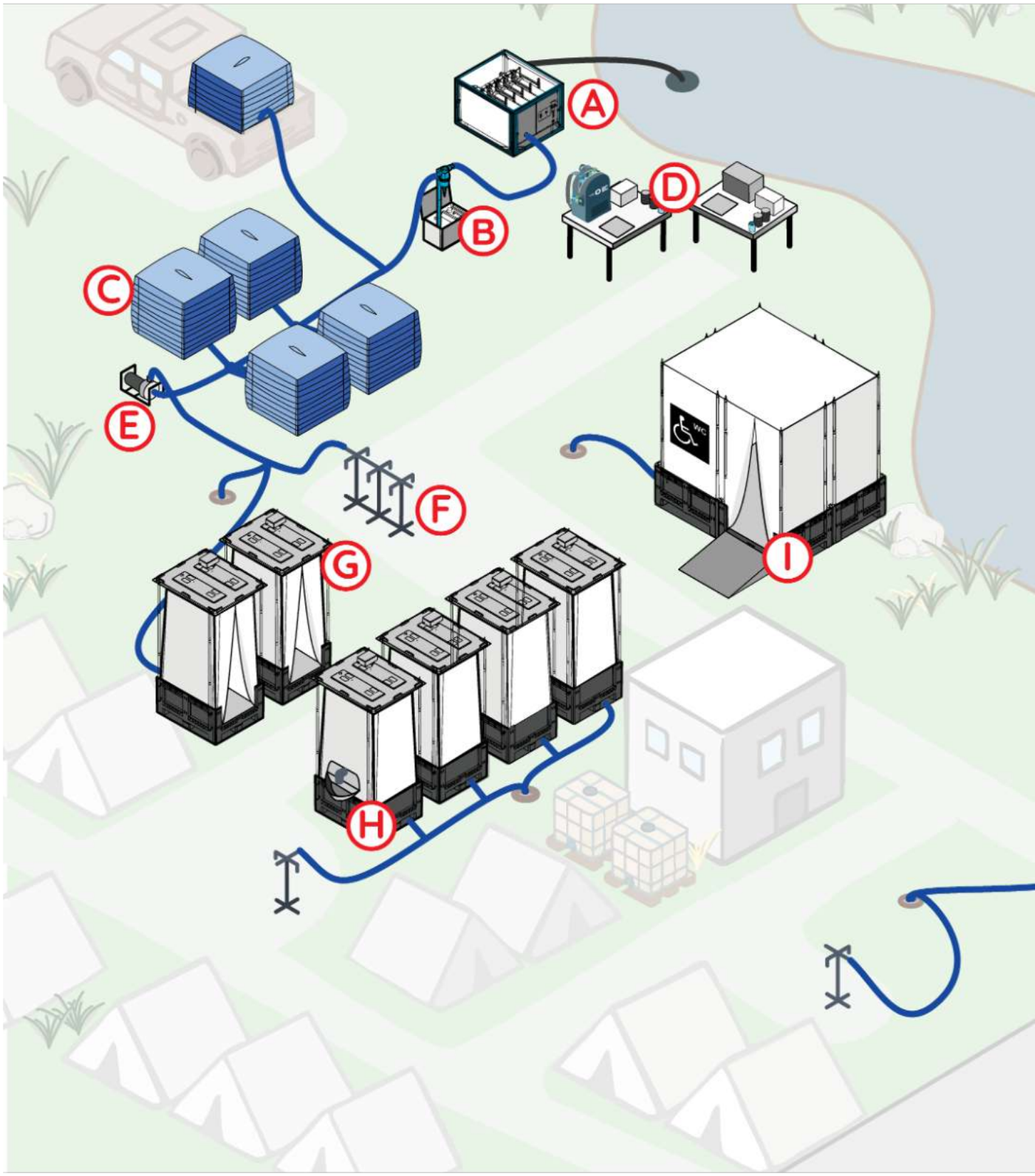
B. **Mechanical inline Chlorinator**
(Page 13-14,)

C. **Foldable 1000L drinking water storage tank**
(Page 19 Pos. 1)

D. **Mobile field laboratory for drinking water**
(Page 15-17, Pos. 48, 51, 72 & 73)

E. **Booster pump and hose systems**
(Page 24 Pos. 45)

F. **Expandable drinking water distributor**
(Page 26 Pos. 59)



G. **Mobile shower** (Page 9) **with Add-Ons** (Page 19-22)

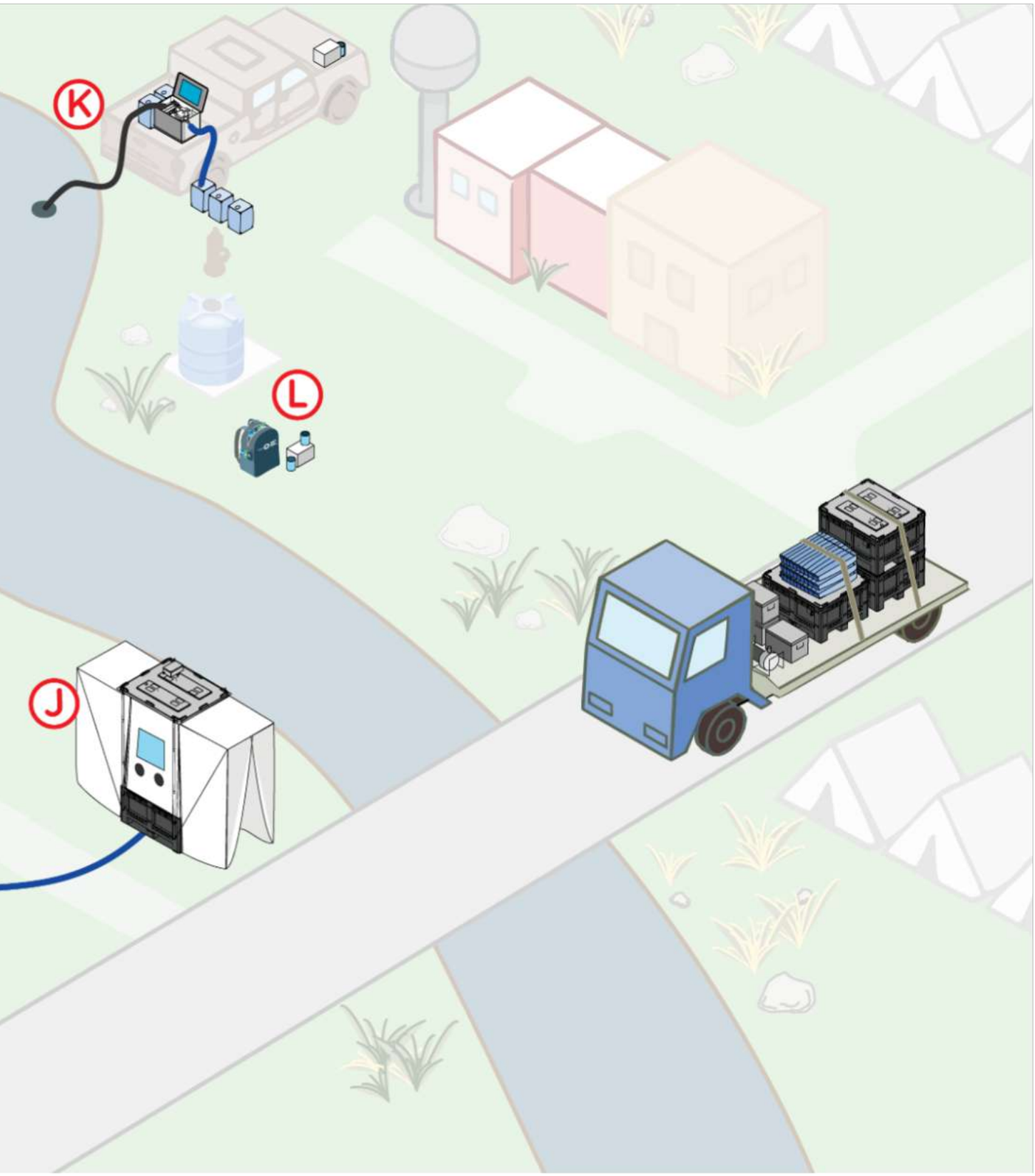
H. **Mobile toilet** (Page 10) **with sink and Add-Ons** (Page 19-22)

I. **Mobile toilet and shower for reduced mobility** (Page 11 & 12)

J. **Mobile-decontamination cabin** (Page 9) **with Add-Ons** (Page 19-22)

K. **Compact drinking water purification (battery & solar module)** (Page 8)

L. **Drinking water Test-kits** (Pos. 68)



SAS-W2500 – Mobile Water Purification

Gasoline version for rapid deployment

The SAS-W2500 is a drinking water treatment system for humanitarian disasters. The device is the result of a comprehensive joint development and testing phase with humanitarian organizations and was unveiled for the first time at the Interschutz 2022 international trade fair in Hanover. The SAS-W2500 uses multi-stage filtration. A modular system allows the user to employ various filtration and disinfection processes such as sediment filtration, microfiltration, ultrafiltration, activated carbon, and a chlorination module. A newly developed automatic filter cleaning mechanism ensures long operating times without manual intervention. The reliability and durability of the product is underlined by the fact that it contains no electronics.

Filtration capacity	2500 – 3000 l/h
Weight	135 kg
Dimensions [L x W x H]	120 cm x 100 x 76 cm – [EPAL2, LD3]
Power source	6,1 PS gasoline engine
Water source	Non-saline water sources
Filtration technology	Micro-/ Ultrafiltration
Filtration depth	Basic sequence: 1 µm, activated carbon 0.2 µm, 0.1 µm possible down to 0.04 µm

One possible application for the SAS-W is the use of the machine for the immediate treatment of drinking water without any additional equipment. For this purpose, the machine is equipped with a gasoline engine and a 5 m suction hose. The filter cascade consists of two parallel-connected cartridges with a 5 µm wound filter, a 1 µm melt-blown filter, and a 0.2 µm filter for coarse and fine sediments. This is followed by a cartridge with two activated carbon filters and a 0.1 µm membrane filter for biological contamination. This system runs completely autonomously without electricity and can be used from a trailer or the rear of a vehicle.
(Order-Code: SAS-W-F0-S3P0-PCS)

SAS-W2500 – Mobile Water Purification

Electric version with UV disinfection

The SAS-W2500 is a drinking water treatment system for humanitarian disasters. The device is the result of a comprehensive joint development and testing phase with humanitarian organizations and was unveiled for the first time at the Interschutz 2022 international trade fair in Hanover. The SAS-W2500 uses multi-stage filtration. A modular system allows the user to employ various filtration and disinfection processes such as sediment filtration, microfiltration, ultrafiltration, activated carbon, and a chlorination module. A newly developed automatic filter cleaning mechanism ensures long operating times without manual intervention. The reliability and durability of the product is underlined by the fact that it contains no electronics.

Filtration capacity	2500 – 3000 l/h
Weight	120 kg
Dimensions [L x W x H]	120 cm x 100 x 76 cm – [EPAL2, LD3]
Power source	Electric engine with 1,2 kW/230V
Water source	Non-saline water sources
Filtration technology	Micro-/ Ultrafiltration
Filtration depth	Basic sequence: 5 µm, 1 µm, 0,2 µm– possible up to 0,04 µm

If large volumes of water need to be filtered very quickly and without long running times, the machine can be used as a kind of first aid kit. In this configuration, an electric pump, a filter cascade with two filter cassettes, and a UV unit are installed. The Cassette units contain a 1 µm melt-blown filter, an activated carbon filter, and a 0.2 µm pleated element filter for coarse and fine sediments. The UV unit contains an activated carbon filter followed by UV disinfection.
(Order-Code: SAS-W-F0-S2P1-EBS)

SAS-W5000 – Mobile Water Purification

Water filtration for rapid deployment

The SAS-W5000 is a drinking water treatment system for humanitarian disasters. The device is the result of a comprehensive joint development and test phase with humanitarian organizations. The SAS-W5000 works with multi-stage filtration. A modular system enables the user to apply various filtration and disinfection processes such as sediment filtration, microfiltration, ultrafiltration, activated carbon, UV disinfection and a chlorination module. The reliability and durability of the product is underlined by the fact that no electronics are installed.

Filtration capacity	5.000 – 8000 l/h
Weight	ca. 110 kg
Dimensions [L x W x H]	120 cm x 100 x 76 cm – [EPAL2, LD3]
Power source	Water Line or external Electric Pump 230 V / 50 Hz
Water source	Non-saline water sources
Filtration technology	Micro-/ Ultrafiltration
Filtration depth	Basic sequence: 1 µm, Active Carbon, 0,2 µm – possible up to 0,04 µm

For long-term use of the system, an electrical system with an external pump is recommended. This setup consists of five filter units and an external water pump. Three filter cartridges are connected in parallel, which then feed two UV units. The two cartridges contain a 5 µm wound filter, a 1 µm melt-blown filter, and an activated carbon filter. 0.2 µm foldelement filters are used in front of the UV units.

(Order-Code: SAS-W-F0-0S5P0-00S + AD-W-BOOS)

COM-W Compact Water Purification Unit

Self-sufficient and highly mobile water treatment

The COM-W is our compact and mobile solution for rapid response units to purify water in humanitarian disasters. This water treatment system is the result of close cooperations with aid organizations. The mechanism is based on a multi-stage filtration with sediment, activated carbon and membrane filters as well as UV-light disinfection. This cascade enables the COM-W to be used with fresh water sources. An optional E-module extends the treatment system with a solar panel and battery for autonomous power supply. Due to its low weight, the COM-W can be carried by one person even to very remote locations.

Dimensions [L x W x H]	60 cm x 40 cm x 42 cm
Weight	32 kg with E-Modul
Format	Eurobox
Power	12 V, 120 W [230 V with E-Modul]
Connection	• Output: Camlock ½“ • Input: GEKA
Filtration performance	• Max. 450 l/h with integrated pump • Max. 600 l/h filtration capacity with UV disinfection and external pump
Filtration technology	• Sediment-Filter • Activated carbon • Micro-/ Ultrafiltration • UV-Sterilisation
Water source	Non-saline water sources
Optional	• Chlorinator • Water hoses and distributors

FMD - Mobile Field Shower / Decontamination unit

for hygiene and sanitation on site

The field shower was developed based on many years of field experience from international crisis operations. The shower can be set up in less than a minute and includes all the necessary instruments for use: Shower head, mixer tap and hoses. The robust design of the Field Shower ensures that it can be used for many years in a wide variety of operational applications. The DEKON extension turns the shower into a decontamination cabin with a "black" entrance and "white" exit. The DEKON+ extension adds a viewing window and push-through gloves to the DEKON for assisted decontamination

Dimensions [L x W x H]	121 cm x 101 cm x 63 cm [238 cm open]
Weight	65 kg
Format	• EPAL2 • Compatible with IBC BigBoxes (e.g. from Auer)
Connection	• Hot and cold: ½" Camlock for 13 mm hose • Adapter for GEKA or Storz-C couplings available to order separately
Drain	• GEKA connector for 25 mm hose • Adapter for GEKA or Storz-C couplings available to order separately
Panelling	• Absolutely opaque and B1 flame-retardant • Magnetic "vacant" and "occupied" signs • Magnetic fasteners and lockable
Optional	• LED light with red light function against insects • Pumpbox for Fresh and Waste water • Water filter • Gas instantaneous water heater

FMD - Mobile Field Toilette

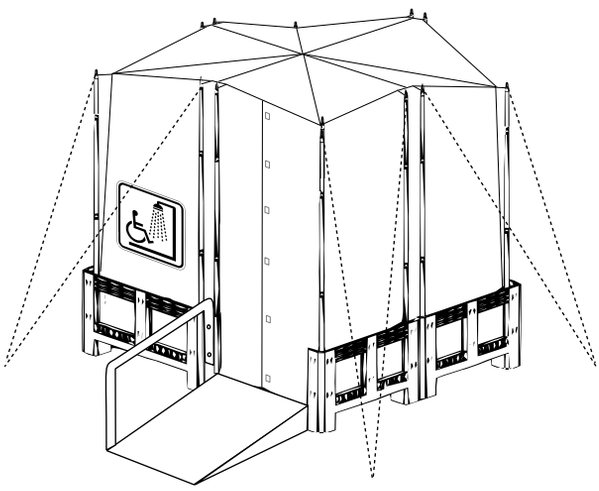
for hygiene and sanitation on site

The Field Toilet is a development based on many years of field experience from international crisis operations. The toilet can be set up in just a few minutes and includes all the necessary tools for use: cleaning shower and sitting or squatting toilet (with flush or storage). The robust design of the Field Toilet ensures that it can be used for many years in a wide variety of operational applications. The toilet cell has a floor drain and a cleaning spray for regular cleaning of the interior. Available in several versions, the field toilet can be customised to suit the sanitary conditions, either with an internal storage tank or black water drainage connection

Dimensions [L x W x H]	121 cm x 101 cm x 63 cm [238 cm open]
Weight	64 kg
Format	• EPAL2 • Compatible with IBC BigBoxes (e.g. from Auer)
Connection	• Cold: ½" Camlock for 13 mm hose • Adapter for GEKA or Storz-C couplings available to order separately
Floor drainage	• GEKA on 25 mm hose • Adapter for GEKA or Storz-C couplings available to order separately
Panelling	• Absolutely opaque and B1 flame-retardant • Magnetic "vacant" and "occupied" signs • Magnetic fasteners and lockable
Optional	• LED light with red light function against insects • Mobile sink • Modular Pissoir

FMD-RM - Mobile Field Shower

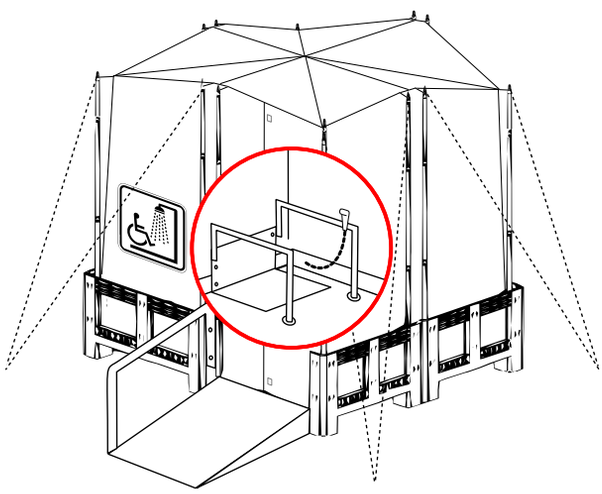
for reduced mobility

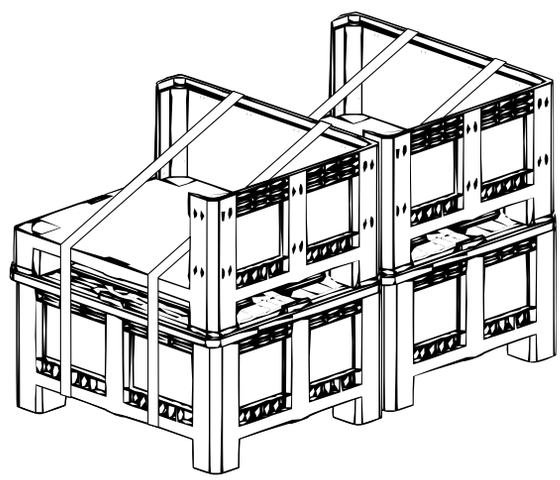


The Field Shower Reduced Mobility (RM) is an adaption of the field shower, facilitating four base modules to one big cabin. The shower can be set up in just a few minutes and includes all the necessary tools for use: cleaning shower and sitting or squatting toilet (with flush or storage). The robust design of the Field Shower RM ensures that it can be used for many years in a wide variety of operational applications. The shower cell has a floor drain and a cleaning spray for regular cleaning of the interior. Available in several versions, the field shower can be customised with a wide variety of ADDONS.

Dimensions [L x W x H]	242 cm x 202 cm x 225 -245 cm
Weight	~180 kg
Format	• EPAL2 • Compatible with IBC BigBoxes (e.g. from Auer)
Connection	• Hot and cold: ½" Camlock for 13 mm hose or ½" threading
Drain	• GEKA or 32-40 mm Pipe
Panelling	• Absolutely opaque and B1 flame-retardant • Magnetic "vacant" and "occupied" signs • Magnetic fasteners and lockable
Optional	• LED light with red light function against insects • Waste water pump • Water filter • Gas instantaneous water heater
Transport	• Transportable with all components in sturdy industrial box, pallet size

For transportation the shower is collapsed into the base modules. All components are stored safely inside the modules. Two modules can be stacked over each other forming two separate transportation boxes with a combined storage space of 120 cm x 200 cm x 130 cm (L x W x H).

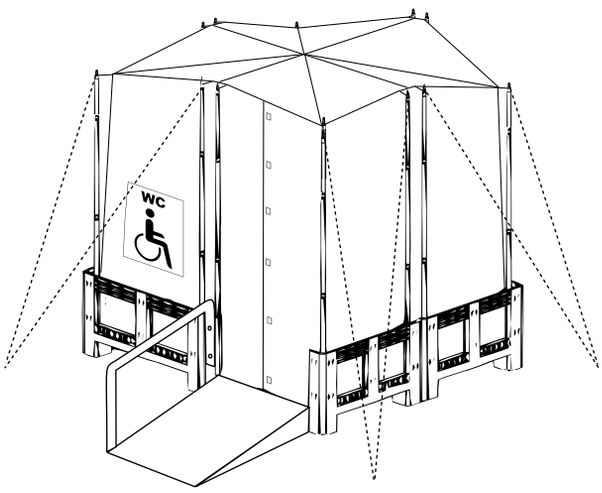




FMD-RM - Mobile Field Toilet

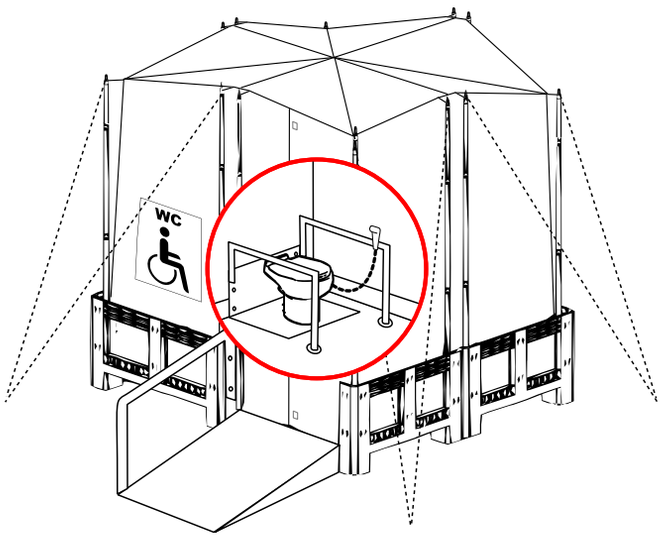
for reduced mobility

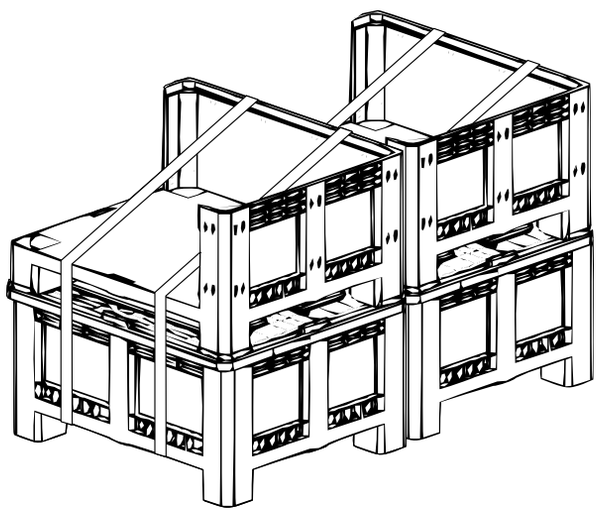
The Field Toilet Reduced Mobility (RM) is an adaption of the field toilet, facilitating four base modules to one big cabin. The toilet can be set up in just a few minutes and includes all the necessary tools for use: cleaning shower and sitting or squatting toilet (with flush or storage). The robust design of the Field Toilet ensures that it can be used for many years in a wide variety of operational applications. The toilet cell has a floor drain and a cleaning spray for regular cleaning of the interior. Available in several versions, the field toilet can be customised to suit the sanitary conditions.



Dimensions [L x W x H]	242 cm x 202 cm x 225-245 cm
Weight	~180 kg
Format	• EPAL2 • Compatible with IBC BigBoxes (e.g. from Auer)
Connection	• Cold: ½" Camlock for 25 mm hose or ½" threading • Toilet: 32-40 mm Pipe
Floor drainage	• GEKA or 32-40 mm Pipe
Panelling	• Absolutely opaque and B1 flame-retardant • Magnetic "vacant" and "occupied" signs • Magnetic fasteners and lockable
Transport	• Transportable with all components in sturdy industrial box, pallet size

For transportation the toilet is collapsed into the base modules. All components are stored safely inside the modules. Two modules can be stacked over each other forming two separate transportation boxes with a combined storage space of 120 cm x 200 cm x 130 cm (L x W x H).





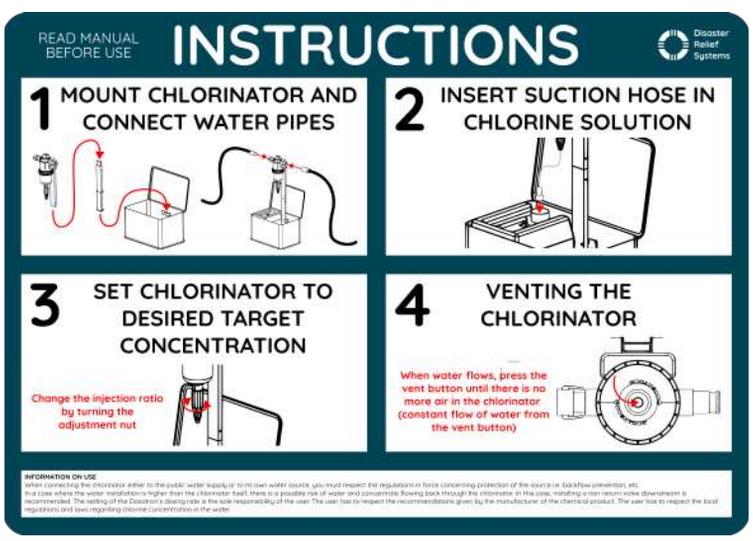
AD-W-ICL0-I - Inline Chlorinator

for SAS-W

The AD-W-ICL0-I inline chlorinator is a module for the mobile, powerless chlorination of drinking water. Due to its design with 1" camlock connections, the AD-W-ICL0-I can be used either as a stand-alone solution for a water network or in conjunction with a drinking water purification system, such as the SAS-W 2500. In addition to the disinfection of water using chlorine solutions, the unit can also be used for pH regulation or for the introduction of flocculants.

- The amount of solution to be dosed is proportional to the water flow rate, regardless of flow rate or pressure fluctuations
- Compact design, quick and easy installation
- The solutions and the 20-litre container are not included

Dimensions [L x W x H]	80 cm x 60 cm x 20 cm
Weight	12 kg without Chlorine solution
Throughput	500 – 9000 l/h
Drive system	Mechanically self-priming through water flow (powerless)
Connection	1" Camlock for 25 mm hose (adapter to GEKA or Storz-C coupling can be supplied)
Water pressure	Max. 5 bar
Pressure drop	0,2 – 2,3 bar
Solution dosing feed	Proportional: 0,03-0,1 % of the water flow rate (1,35 l/h – 4,5 l/h at 4500 l/h Throughput)



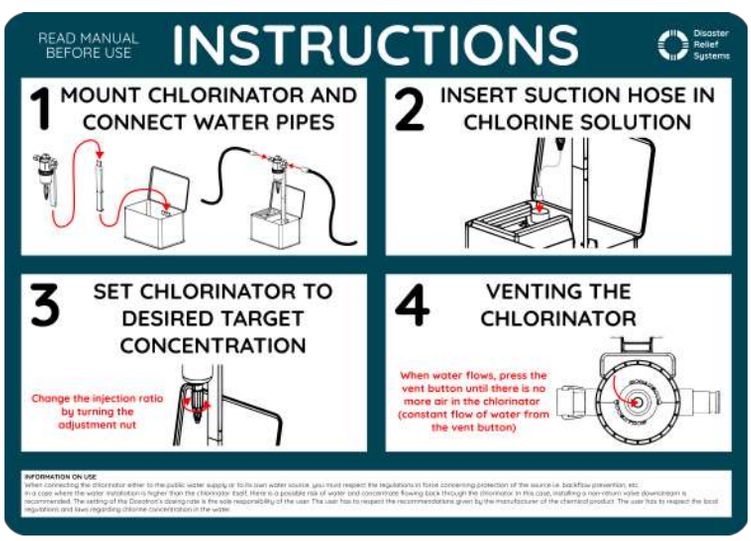
AD-W-ICL0-II - Inline Chlorinator

for COM-W

The AD-W-ICL0-II inline chlorinator is a module designed for the mobile, off-grid chlorination of drinking water when used with COM-W units. Thanks to its design with 1/2" Camlock connections, the AD-W-ICL0-II can be used either as a standalone solution for a water network or in conjunction with a drinking water treatment system. In addition to disinfecting water with chlorine solutions, the device can also be used for pH regulation or for adding flocculants.

- The amount of solution to be dosed is proportional to the water flow rate, regardless of flow rate or pressure fluctuations
- Compact design, quick and easy installation
- The solutions and the 20-litre container are not included

Dimensions [L x W x H]	60 cm x 40 cm x 20 cm
Weight	8 kg without Chlorine solution
Throughput	10 – 3000 l/h
Drive system	Mechanically self-priming through water flow (powerless)
Connection	1/2" Camlock for 13 mm hose (adapter to GEKA or Storz-C coupling can be supplied)
Water pressure	Max. 5 bar
Pressure drop	0,2 – 2,3 bar
Solution dosing feed	Proportional: 0,03-0,1 % of the water flow rate (0,9 l/h – 3,0 l/h at 3000 l/h Throughput)



TEQ-W-BIOL

Water testing kit – Biological

This compact test kit for microbiological water analysis enables the rapid and reliable detection of E. coli and coliform bacteria directly on site. It has been specially developed for use in emergencies and remote areas and operates independently of external infrastructure. Thanks to its robust, waterproof packaging, long shelf life without refrigeration, and simple, user-friendly operation, the kit is ideal for mobile use in challenging conditions.

Dimensions [L x W x H]	48,8 × 38,6 × 22,9 cm
Weight	9 kg
Shelf life	Shelf life of 2 years without refrigeration
Content	• Manual vacuum pump • 250 ml spray bottle • Multi-purpose bottle – stainless steel • Laboratory alcohol burner – stainless steel • Container for sterile water – stainless steel • Ethanol container – stainless steel • 1 ml spoon – stainless steel • Flat-head tweezers – stainless steel • Membrane filters – 100 pieces • Dehydrated culture plates Compact Dry (E. coli) – 32 pieces • Thio bags (100 ml) – pre-sterilised and containing a thiosulphate tablet – 25 pieces
Key parameters	E. coli and coliform bacteria

TEQ-W-BCP – Basic Water CheckPack

Water testing backpack for rapid deployment

The Basic Water CheckPack is a compact, fully equipped water testing backpack designed for use in the field. Operating independently of an external power supply, the CheckPack enables reliable microbiological and physicochemical analyses to be carried out directly on site, including key parameters such as E. coli, turbidity, pH and residual chlorine. The analysis is based on easy-to-use methods such as microbiological presence/absence tests and visual color comparisons. This makes the CheckPack particularly suitable for trained laypeople, medical staff and emergency services. With integrated sampling, analysis, documentation and safe disposal, it offers a robust and ready-to-use complete solution.

Purpose	Water quality assessment in disaster situations
Form	High quality emergency response backpack
Material	Truck tarpaulin, original CORDURA® fabric and 3M™ Scotchlite™ reflective strips
Dimensions (L x W x H)	470 x 390 x 300 mm (L x W x H)
Weight	9 kg
Selected priority parameters	Visual presence/absence: Fecal bacteria incl. E. coli Visual testing: Al, Cl_2 (free/residual & total), EC, Fe, Mn, NO_3-, pH, TDS, Temp., Turbidity
Incubator	Not needed
Optional parameters	Additional parameters on request

The Basic Water CheckPack is designed to facilitate efficient teamwork in the field and enables up to three users to carry out tests simultaneously at multiple sampling points. Standardized reagents and clearly structured procedures reduce the need for training and make it easier to use the kit under time pressure. The robust backpack reliably protects all components and ensures quick access and intuitive handling even under difficult conditions. Thanks to its expandability to include additional parameters, the CheckPack can be flexibly adapted to different operational requirements.

TEQ-W-ACP – Advanced Water CheckPack

Backpack for precise water testing

The Advanced Water CheckPack is a fully equipped, portable water testing backpack designed for use in the field. Operating independently of an external power supply, the CheckPack enables reliable microbiological and physicochemical analyses to be carried out directly on site, including key parameters such as E. coli, turbidity, pH and residual chlorine. The combination of easy-to-use visual tests, precise photometric measurement and digital data management makes the backpack suitable for both trained laypeople and experts. With integrated sampling, analysis, documentation and safe waste disposal, the Checkpack offers a robust and ready-to-use complete solution.

Purpose	Water quality assessment in disaster situations
Form	High quality emergency response backpack
Material	Truck tarpaulin, original CORDURA® fabric and 3M™ Scotchlite™ reflective strips
Dimensions (L x W x H)	470 x 390 x 300 mm (L x W x H)
Weight	10,2 kg
Selected priority parameters	Visual presence/absence: Fecal bacteria incl. E. coli Photometric: Al, Cl_2 (free/residual & total), EC, F-, Fe, Mn, NO_3-, pH, TDS, Temp., Turbidity
Incubator	Not needed
Optional parameters	Additional parameters on request

The Advanced Water CheckPack is designed to facilitate efficient teamwork in the field and enables up to three technicians to carry out tests simultaneously at multiple sampling points. Its modular design and standardised reagents ensure a high degree of flexibility with minimal logistical effort. The robust backpack protects all components and ensures quick access and easy handling, even under difficult conditions. Thanks to its expandability to include numerous additional parameters, the CheckPack can be flexibly adapted to different operational requirements.

SEM-WP1

Seminar for water purification

Almost every crisis situation has an impact on the drinking water supply. Misjudgments can have serious consequences for the health of emergency services or the affected population.

The Drinking Water Treatment I training course provides participants with a detailed overview of the complexity of the topic of drinking water in the event of a disaster. The knowledge gained with reference to specific operational scenarios enables those involved to make decisions quickly and confidently in an emergency in order to be able to react to potentially dangerous situations.

Depending on the desired duration and objectives of the seminar, the training is individually adapted to the complex requirements of your organisation or authority. The theory is supplemented by practical insights. All participants then receive an operational information overview for tactical decision-making.

Topic	Fundamentals of drinking water treatment in the event of a disaster
Target audience	Operational and management staff | Humanitarian organizations and authorities
Duration	5+ hours
Content	• Application scenarios for drinking water treatment in the event of a disaster • Water sources, types and suitability for drinking water supply • Types of contamination, their occurrence and classification • Optical, chemical and biological test methods and procedures • Types of treatment for drinking water as well as advantages and disadvantages in different scenarios • Adequate storage, transport and distribution • Legal basis WHO, EU, DE
Type	Theoretical fundamentals
Location	On-site (online possible by arrangement)
Outcome	• Assessment of the suitability of water sources for drinking water treatment • Awareness of the hazard potential of various contaminants in drinking water • Overview of test procedures and their relevance in the event of a disaster • Knowledge of limit values, emergency regulations and responsible authorities • Handover of an operational information overview

Product overview & order code

ID	Product Code	Product name	Product description
1	AD-W-1000	Mobile Drinking Water Tank 1000L	Drinking water storage tank 1000 L - With exchangeable Drinking Water inliner - 1 inlet/outlet Kamlock 1" - Stopcock - 8 kg. transport weight - Foldable tank 1,2x1.2 m - Transportable, e.g. with forklift and helicopter
2	AD-W-CASE	Protective Case for Stand Alone Elements	Stand-Alone Case for FU, CA, UV - Transport and protective housing - for FU, CA and UV
3	AD-W-CAPP	Stand Alone Cassette - Polypropylen	Single element filter cassette CA for SAS-W - With three polypropylene filter housings - Can be used for 20" DOE filter elements - Filter housing in series connection
4	AD-W-CASS	Stand Alone Cassette – Stainless Steel	Single element filter cassette CA for SAS-W - With three stainless steel filter housings - Can be used for 20" DOE/SOE filter elements - Filter housing in series connection - Mounting aid for filter in filter housing
5	AD-W-FUPP	Stand Alone Filter Unit – Polypropylen	Single element pneum. Filter unit FU for SAS-W - With a polypropylene filter housing - Can be used for 20" DOE filter elements - Air tank and pneumatic circuit - Pneum. Pressure backwash of the filter - Connection for pneum. Supply and switching
6	AD-W-FUSS	Stand Alone Filter Unit – Stainless Steel	Single element pneum. Filter unit FU for SAS-W - With a stainless steel filter housing - Can be used for 20" DOE/SOE filter elements - Mounting aid for filter in filter housing - Air tank and pneumatic circuit - Pneum. Pressure backwash of the filter - Connection for pneum. Supply and switching
7	AD-W-UV00	Stand Alone UV-Filter	Single element UV filter UV for SAS-W - With a stainless steel filter housing - Can be used for 20" DOE/SOE filter elements - Mounting aid for filters in the filter housing - UV sterilization for max. 4,000 l/h - Two UV lamps with separate switching - 100 watts
8	AD-W-FMDA	Awning for FMD	Lockable awning for changing clothes - Completely opaque curtain - Hooks and pockets for clothing - Also suitable as a front/back tent for DEKON and DEKON+
9	AD-W-FMDB	Electric Boiler 50L for FMD	Isotherm Basic 50 Boiler (special design) for Field Modules

			- 17,00 kg - 50-litre hot water storage tank - 230 V - 750 W
10	AD-W-FMDC-I	Electric Switching Box „Time” for FMD	Switching Box "Time" for Fieldmodule Recommended for tent and reception accommodation. Electric switching unit for simple and time-controlled activation of the inlet pump, waste water pump and light. For front mounting on the field shower. Separate activation and deactivation of water heater. - IP-65 - 230 V CEE connection / 400 V CEE connection for instantaneous water heater without storage tank - 30 mA residual current circuit breaker - Emergency stop - Illuminated switches - Mounting arm for front mounting - Cable for each consumer in the pre-assembled cable harness. - for up to three FMDs
11	AD-W-FMDC-II	Electric Switching Box “Control” for FMD	Switching Box "Control" for Fieldmodule Electrical switching unit for individual activation and deactivation of water heater, inlet pump, waste water pump and three lights, for front mounting on the fieldmodule. - IP-65 - 230 V CEE connection / 400 V CEE connection for instantaneous water heater without storage tank - 30 mA residual current circuit breaker - Emergency stop - Illuminated switches - Mounting arm for front or back mounting - Cable for each consumer in the pre-assembled wiring harness. - For three FMDs
12	AD-W-FMDF	Water Filter for FMD	Filter for the field module for insertion into the mixer shower - Ultrafilter for shower head - 0.01 µm - Max. 40° - Max. 4 bar
13	AD-W-FMDH-I	Electric Heater 3,5 for FMD	Electric Direct Heater 3,5kW for Fieldmodule - Direct heater without tank - 3,5 kW - 230 V - 30° - 50°C Water temperature - Δ25° at 2.0 l/min
14	AD-W-FMDG	Propane Heater for FMD	Propane Direct Heater - Flow rate: 11.5 l/min - 9.8 kg - 10 - 60° adjustable

			- 16 kW - 1.3 - 5.5 bar water pressure
15	AD-W-FMDH-II	Electric Heater 5,5 for FMD	Electric Direct Heater 5,5kW for Fieldmodule - Direct heater without tank - 5.5 kW - 400 V - 30° - 50°C Water temperature - Δ25° at 4.5 l/min
16	AD-W-FMDL	White and Red Light for FMD	LED light for the field shower or field toilet - White light - Red light for night-time use to repel insects - Suitable for damp rooms
17	AD-P-FMDL-BM	Movement Sensor for FMD	Movement Sensor for FMD - Compatible with AD-W-FMDL - 230V
18	AD-W-FMDP-I	One Pump for FMD - Pumpbox I	Pumpbox I A 4-chamber diaphragm pump for shower water drainage. Mounted in transportable casing suitable for outdoor use. - 230 V - IP 65 - 13-17 l/min - max 2.5 bar - Pre-filter - Dry-running and self-priming - max. 210 W
19	AD-W-FMDP-II	Two Pumps for FMD - Pumpbox II	Pumpbox II Two diaphragm pumps for water inlet and outlet. Mounted in transportable casing suitable for outdoor use. - 230 V - IP 65 - 13-17 l/min - max 2.5 bar - Pre-filter - Dry-running and self-priming - max. 420 W
20	FMD Order-Code	FMD - Mobile Shower	Fieldmodule field shower - Mobile shower cubicle for disaster relief operations - 1x1,2x0,63 m [2,38m setup] - EPAL2 and LD3 - Completely opaque curtain - Drain in the floor - Hand shower with 2m hose
21	FMD Order-Code	FMD - Mobile Decontamination Booth	Fieldmodule DEKON - Mobile decontamination cabin for disaster operations - black entrance / white exit - 1 x 1,2 x 0,63 m [2,38m setup] - EPAL2 and. LD3 - Completely opaque curtain

			- Drain in the floor - Hand shower with 2 m hose
22	FMD Order-Code	FMD - Mobile Decontamination booth with gloves	Fieldmodule DEKON+- Mobile decontamination cabin for disaster operations - black entrance / white exit - Visible film with push-through gloves for assisted decontamination - 1x1.2x0.63 m [2.38m Setup] - EPAL2 and. LD3 - Completely opaque curtain - Drain in the floor - Hand shower with 2 m hose
23	FMD Order-Code	FMD – Toilet seated with flush	Fieldmodule Toilet Flush - mobile toilet cabin - sitting toilet - pressure flushing valve - ½" Camlock Input
24	FMD Order-Code	FMD – Toilet seated with tank/bag system	Fieldmodule Toilet Tank - mobile toilet cabin - sitting toilet - tank system - optional with liquid discharge - optional with bags
25	FMD Order-Code	FMD – Toilet squatting with flush	Fieldmodule Squatting Toilet Flush - mobile toilet cabin - squatting toilet - tank system - pressure flushing valve - ½" Camlock Input
26	FMD Order-Code	FMD – Toilet squatting with tank	Fieldmodule Squatting Toilet Tank - mobile toilet cabin - squatting toilet - tank system - optional with liquid discharge - optional with bags
27	AD-W-FMDS	Sink for FMD	Equipped with mixer tap for hot and cold water and drain connection, the washbasin can be connected to the field module and supplied by the existing water infrastructure.
28	AD-W-FMDI	Portable Bidet for FMD	Portable hand bidet as an intimate shower for use in very critical water situations or for using the urine-diverting toilet - 500 ml capacity - Detachable nozzle
29	AD-W-FMDT	Handles for FMD	Four transport handles for hooking into the base tray.
30	AD-W-FMDU	Urinal for FMD	The urinal can be fitted inside the field module in addition to the toilet variants, optionally connected to the drain. This makes it easier to separate solids and liquids, in addition to the urine-diverting toilet.

31	AD-W-FMDW	Velcro Symbols for FMD	Various Velcro symbols, e.g. shower or toilet symbols or the logo of an organization, can be attached to both sides of the field module.
32	AD-W-ICL0-I	Inline Chlorinator	Inline chlorinator for SAS-W - For chlorination of treated water - 500 - 9000 l/h - Hydromechanical without power connection - Two 1" Kamlock M/F connections - 60 cm x 40 cm x 42 cm - In a robust aluminium case with carrying handles for transport
33	AQN-MBS	Mobile Sink	Mobile Sink - Transportable with padded shoulder strap and handle - Up to 25 hand washes with one tank filling (~ 8.5 l) - Environmentally friendly thanks to waste water collection tank - Fresh water tank and dirty water tank can be separated from each other - Requires neither electricity nor a battery
34	SAS-W2500 F0-0P3P0-P0S	Mobile Water Purification Machine with engine	Manual Cleaning (MC), Gasoline Engine (GE)
35	SAS-W2500 F0-0P3P0-E0S	Mobile Water Purification Machine with engine	MC, Electric Engine (EE)
36	SAS-W2500 F0-0P2P1-E0S	Mobile Water Purification Machine with engine	MC, EE, Ultra-Violett Disinfection (UV)
37	SAS-W2500 F0-0P1P2-E0S	Mobile Water Purification Machine with engine	2 UV, EE
38	SAS-W2500 F0-0P0P3-E0S	Mobile Water Purification Machine with engine	3 UV, EE
39	SAS-W5000 F0-0P5P0-0US	Mobile Water Purification Machine without engine	5 Cassettes (CA)
40	SAS-W5000 F0-0P4P1-0US	Mobile Water Purification Machine without engine	4 CA, 1 UV
41	SAS-W5000 F0-0P3P2-0US	Mobile Water Purification Machine without engine	3 CA, 2 UV
42	SAS-W5000 F0-0P2P3-0US	Mobile Water Purification Machine without engine	2 CA, 3 UV
43	SAS-W2500	Mobile Water Purification Machine with engine	SAS-W2500 - Electric or gasoline drive - Three filter slots for (cassettes, filter units, UV filter, 230 V battery) - Nominal filter capacity 2,500 l/h - Opt. 5 m suction hose included - Opt. with pneumatics for self-cleaning - Initial filter equipment
44	SAS-W5000	Mobile Water Purification Machine without engine	SAS-W5000 - Five filter slots for (cassettes, filter units, UV filters, 230 V 4.2 kWh Accumulator) - Nominal filter capacity 5000 l/h - Opt. included suction hose 5m - Initial filter equipment

45	AD-W-BOOS	Booster Pump 230V	Pressure booster pump for SAS-W - 230 V, 1100 W - Electrical connection directly to SAS-W - Central activation and deactivation with SAS-W - Safety features include emergency stop and zero voltage protection of the SAS-W - 1" Kamlock M/W connections - Max. 50 m delivery head - Up to 120 l/min - Transport and protective frame as well as 25 m cable
46	COM-W	Compact Water Purification Unit	Mobile Water Purification Unit for emergency supply of drinking water in remote locations - 12 V by 120 W - max. 600 l/h Output - 3-Stage Filtration inclusive UV Disinfection - 17 kg - 60 cm x 40 cm x 42 cm
47	COM-W-EM	COM-W with electrical module	Mobile Water Purification Unit with electrical module for emergency drinking water supply in remote locations with autonomous operation of the COM-W using solar power, batteries and 230 V. - 12 V at 120 W - max. 600 l/h output - 3-Stage Filtration inclusive UV Disinfection - 120 W solar module - 12 V battery for installation in COM-W - Solar charger in front of battery - 230 V to 12 V converter - 32 kg - 60 cm x 40 cm x 42 cm
48	TEQ-W-BIOL	Biological Parameter Tests	Test Equipment Water - Biological Portable membrane filtration kit perfectly adapted to the requirements in limited infrastructure conditions. Quantify E.coli & other coliform bacteria in water samples, in the laboratory and in the field. - 9 kg - Shelf-Life of 2 years without cooling - waterproof and illustrated instruction manual - Portable laboratory table - Manual vacuum pump - 250 ml spray bottle - Multi-purpose bottle - stainless steel - Laboratory alcohol candle - stainless steel - Container for sterile water - stainless steel - Ethanol container - stainless steel - 1 ml spoon - stainless steel - Flat headed tweezers - stainless steel - Waterproof pen - Membrane filters 100 pcs - Dehydrated culture plates Compact Dry (E.coli)

			32 pcs - Thio Bags (100ml) pre-sterilised and with a thiosulphate tablet 25pcs
49	TEQ-W-INCU-II	Autonomous Incubator	Mobile Incubator II "Autonomous" Independent of electricity, lightweight and compact. Electricity-free chemical incubator For use in regions with instable power supply. Use the sun or hot water or a USB heating pad for activation, then incubate for 24 hours at 37°C. Handmade in Germany and patented. - Incubation in non-electrified areas or on a motorbike - Very robust and practical to use - Can also cool samples down to 37 °C if outside temperatures are higher. - Glass fiber aluminum insulated bag - Dimension whd 400x300x130mm - 4,5 kg - Temperature 37°C +/- 0,5 °C, 24 h - Heating plate - Bluetooth temperature data logger - Heating Pad 12V
50	TEQ-W-INCU-I	Electric Mini Incubator	Mobile Incubator I "Mini Electric" For incubating media with fully transparent plexiglass door, easy to clean, compact, stable housing, maintenance-free. Including an insert plate. - Space for 18 immersion culture or 12 Petri dishes - Dimensions whd 310x155x168mm - Inside whd 220x120x150mm - 1,1 kg - 26W / 220V - Temperature 25-45°C - Accuracy: ± 1.0°C
51	TEQ-W-CHEM-I	Chemical Parameter Tests	Test Equipment Water - Chemical I Portable chemical testing kit perfectly adapted to the requirements in limited infrastructure conditions. - Dimensions whd 411x168x322mm - 4,5 kg - robust and waterproof case - 200 reagents for each parameter: - Ammonia T 0.02 - 1 mg/L N - Chlorine T 0.01 - 6.0 mg/L Cl2 a) - Conductivity 0 - 20 mS/cm - Nitrate T 0.08 - 1 mg/L N - pH 0 - 14 - Turbidity 0.01 - 1100 NTU
52	TEQ-W-LBOX	Laboratory Transport Box	Lab Box For transportation of laboratory equipment. Includes printed-on instructions for general water body selection and water testing procedure. Instructions can be printed

			in any language. Includes compartments for all testing equipment. - Robust Aluminium Casing - Waterproof- Size and Weight depend on selected equipment
53	AD-W-ICL0-II	Inline Chlorinator II	Inline Clorinator II - For chlorination of treated water - 10 - 3000 l/h - Hydromechanical without power connection - Two 1/2" Kamlock M connections - 60 cm x 40 cm x 20 cm - In a robust aluminium case with carrying handles for transport
54	COM-RO	Compact Reverse Osmosis	
55	AD-W-12TS	T-Adapter Camlock 1/2"	T-piece Kamlock 1/2” - One Kamlock female 1/2” - Two Kamlock Male 1/2” - Valve
56	FMD-XX-XX-Y	Inner Mountings for FMD	Internal mounting options for FMD - Internal mounting options for urinals, washbasins or grab rails
57	AD-W-ICLC-20	Chlorine Dioxide	Chlorine dioxide tablets - 20g with 10% chlorine dioxide - For use with the inline chlorinator AD-W-ICL0 - For disinfecting 5000 liters of drinking water at a concentration of 0.4mg/l
58	AD-W-ICLT	Testkit Chlorine	Chlorine test kit - Test strips for the strain concentration Strain concentration - Test strips for drinking water concentration
59	AD-W-DWDI	Drinking Water Distributor	Serial drinking water distributor If required, can be coupled with other distributors to create a distribution line. - One Kamlock female 1"" - One Kamlock male 1"" - Two taps - Stand
60	AD-W-10XS	Triple X-splitter Camlock 1”	X-Splitter Kamlock 1" - One Kamlock Female 1" - Three Kamlock Male 1" - Three valves - Stainless steel
61	AD-W-BFFC-10	Filtercase for backflushing Filters 10"	Filtercase for Backflushing Filters - Filterhousing for 10" DOE Filters - Kamlock 1/2" Male Input/output - Foot for Standing
62	AD-W-D012-00	Drinking Water Hose 1/2"	Drinking water hose 1/2" - KTW A - DVGW W270 - EU 82.14 82.14 10/2011 - Two Kamlock 1/2" W - 13 mm hose
63	AD-W-BFFC-20	Filtercase for backflushing Filters 20"	Filtercase for Backflushing Filters - Filterhousing for 20" DOE Filters

			- Kamlock 1" Male Input/output - Foot for Standing
64	AD-W-FMDD	Four shower arm for FMD DEKON	Shower arm for decontamination - Four showers - Stainless-steal arm - approx. 2.10 shower head height - for mounting in the FMD - 1/2" Kamlock M connection
65	AD-W-1000-IL	Inliner tank 1000 L for AD-W-1000	FI-W-F020 - Filter 200nm - 10"
66	STN-W	Stationary Water Purification Unit	STN-W900 Stationary filter system - 6 x 20" filters - Fine filter, activated carbon and ultrafilter - UV sterilization - Drinking water pump with 14 l/min. - Automatic pressure switch. - 230V or 12V
67	FMD-RM		
68	TEQ-W-BIOR	Biological Rapid Test E. coli	E. coli rapid test - Contents: 15 test tubes - Can be used without an incubator in a warm environment - 18-48 hours incubation - Positive/negative result - Precision <8 cfu/100ml
69	FI-W-EXCH-COM-W	Exchange Filter Set COM-W	1 x Set 10" [PF;AC;EF/UF]
70	FI-W-EXCH-0P2P1	Exchange Filter Set SAS-W2500	2 x Set 20" [PF;AC;EF/UF] + 1 x 20" AC
71	FI-W-EXCH-0P5P0	Exchange Filter Set SAS-W5000	5 x Set 20" [PF;AC;EF/UF]
72	TEQ-W-BCP	Basic Water CheckPack	Test Equipment Water - Basic Water CheckPack Portable emergency water testing backpack designed for rapid water quality assessment in emergency and low-infrastructure environments. Fully independent of electricity, robust, and easy to use with minimal training, ideal for the first 72 hours of a crisis response. - Dimensions (H × W × D): 47 × 38 × 30 cm - Weight: approx. 9,0 kg - Robust backpack system suitable for field deployment - Power-free operation, low maintenance - Designed for use by trained laypersons, medical staff, and health officers Measuring devices included (basic version): - Visual colour comparison sets for chemical water analysis, 3 pieces - Conductivity/TDS/temperature measuring device (low range) for simple field measurement, 3 pieces - Turbidity measuring tubes (visual evaluation), 3 pieces

			- Test systems for microbiological parameters (detection of faecal bacteria – presence/absence) Starter testing parameters (Basic version): - Fecal bacteria (E. coli and selected fecal indicators) - qualitative presence/absence test (visual) - Conductivity (EC): 0 – 2,000 µS/cm - Total Dissolved Solids (TDS): 0 – 1,000 mg/L - Temperature: 0 – 50 °C - Turbidity: 5 – 500 NTU - pH: 4 – 10 (visual) - Residual Chlorine: 0 – 5.0 mg/L (visual) - Iron (LR): 0.05 – 1.00 mg/L (visual) - Manganese: 0 – 5.0 mg/L (visual) - Nitrate (HR): 0 – 100 mg/L (visual) Includes multiple visual test comparators and sampling equipment, allowing parallel testing at different locations and fast decision-making in emergency water supply scenarios.
73	TEQ-W-ACP	Advanced Water CheckPack	Test Equipment Water - Advanced Water CheckPack Portable backpack for advanced and precise water quality testing for use in emergencies and demanding environments. Designed for applications requiring quantitative measurement results, extended measurement ranges and structured documentation. Power-independent, robust and equipped with digital and photometric measurement technology – suitable for the first 72 hours as well as for further monitoring. - Dimensions (H × W × D): 47 × 38 × 30 cm - Weight: approx. 10,2 kg - Robust backpack system for professional field use - Power-independent operation with digital and photometric measuring devices - Reproducible, numerical measurement results instead of purely visual assessment - Suitable for specialist personnel, medical teams and authorities Measuring devices included (advanced version): - Photometer incl. accessories - Photometer probe box with conductivity electrode (EC: 0–200 mS/cm, TDS: 0–100 g/L, temperature: 0–50 °C) - EC/TDS/temperature conductivity meter (high range), 2 pieces - Turbidity measuring tubes, 2 pieces - Visual colour comparison set, 2 pieces Advanced test parameters (advanced version): - Faecal bacteria (E. coli and selected faecal indicator organisms) - Qualitative detection (presence/absence, visual)

			- Conductivity (EC): 0 - 200,000 µS/cm - Total dissolved solids (TDS): 0 - 100,000 mg/L - Temperature: 0 - 50 °C - Turbidity: 0.5 - 1,100 NTU - pH value: digital, 4 - 11 - Free residual chlorine: 0 - 8.0 mg/L - Iron (LR): 0 - 1.00 mg/L - Manganese: 0.2 - 5.0 mg/L - Nitrate: 0 - 100 mg/L - Fluoride: 0 - 2.0 mg/L Through the use of photometer and sensor technology, the Advanced Water CheckPack enables higher measurement accuracy, larger measurement ranges and documentable measurement results across multiple locations and time periods. This makes it particularly suitable for quality assurance, monitoring, reporting-required applications and coordinated operational structures.

Disaster Relief Systems

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Build to Aid

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