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# DATA SHEET

## MOBILE WATER TREATMENT UNIT

### CLEANWATERBOX 5.0 Rev.5. 10/2023

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#### Purpose of Use

The **CLEANWATERBOX 5.0** device is designed for obtaining drinking water from surface sources and treating contaminated mains water in emergency situations. The device enhances the safe use of drinking water from such sources by using filtration and disinfection cycle developed by ABSU Water.

Thanks to its flexible and modular design, **CLEANWATERBOX 5.0** can be adapted to specific contaminants: chemical, biological and radioactive.

#### Power supply

The device can be powered by 230V mains or photovoltaic panels.

The photovoltaic panel unit is supplied with the device as a recommended option.

In the absence of external power supply, the device can operate thanks to the installed battery (up to 10h).

#### Filtration and disinfection

The water flow is carried out through a membrane pump. Water filtration is carried out in three stages:

1. Pre-filtration stage using a set of pre-filters placed on the suction hose and immersed in the raw water source.
2. The primary filtration stage performed by a set of five filters that can operate in different configurations to suit specific needs.
3. Disinfection stage using a UV lamp.

#### Control Panel

The Control Panel monitors the operation of the pump, UVC lamp, battery and essential parameters.

Optionally, the unit can be equipped with a remote monitoring system using GPS and GSM.

#### Equipment

The device is supplied in a set consisting of:

- CLEANWATERBOX 5.0 device
- Hose set
- Pre-filtration set mounted on the suction hose
- Set of photovoltaic panels including support structure and wiring (optional)
- 4 sets of filter cartridges
- Set of water mains connections
- Tools for replacing filter cartridges
- Instruction Manual

#### Recommended additional equipment

For proper and safe operation of the device, it is necessary to measure the degree of turbidity of water using dedicated equipment that allows obtaining measurements in NTU (FNU) units with an accuracy of 0.1 NTU.

The recommended HI 98713-02 meter from Hanna Instruments can be supplied with the device.

#### Disclaimer

Due to the dependence of the effectiveness of filtration on the degree of contamination of raw water, the manufacturer does not guarantee to obtain water of drinkable quality.

The efficiency of the device depends on the correct operation and replacement of filter cartridges according to the manufacturer's recommendations.

In the case of strong contaminants, especially chemical and radioactive, the effectiveness of filtration requires individual adjustment of the filter set, and before starting the filtration process it is necessary to test the water contamination.

## Certifications

The manufacturer confirms that the device has an EC Declaration of Conformity (for a device intended for treatment of water obtained from surface sources).

Reference documents: Directives: MD 2006/42/EC, LVD 2014/35/EU, EMC 2014/30/EU, RED 2014/53/EU, RoHS 2011/65/EU, PN-EN ISO 12100:2012, Safety of machinery, General principles for design, Risk assessment and risk reduction, PN-EN 62253:2011 Photovoltaic water pumping systems, EN 60204-1 Safety of machinery, Electrical equipment of machinery.

The device is certified by PZH B-BK-60210-0526/21, and the device has received positive test results from the Military Institute of Engineering Technology in Wrocław, test certificate No. 1/DT1/2021.

## Technical data

### CLEANWATERBOX device

Treatment technology	Flow-based, continuous
Degree of water treatment	Ultrafiltration
Performance	
Surface source	600 l/h
Water mains	Up to 1000 l/h
Handling	1 person
Dimensions	
Width [mm]	1 130
Height [mm]	760
Depth [mm]	370
Operating power demand	130 W
Standby power demand	600 mW
Operating temperature	
Min.	+4° C
Max.	+60° C
Weight	
Ready to work	110 kg
Filled with water	135 kg
Battery capacity 105 Ah	
<b>Water pump</b>	
Nominal voltage	12 V
Max current	9 A
Level difference between water surface source and bottom of the device	
Dry start	Max. 3 m
Filled with water	Max. 5 m
<b>Photovoltaic unit</b>	
No. of panels	3
Panel power	100 Wp
Dimensions	
Height	1006 mm
Width	602 mm
Depth	40 mm
Power peak	300 Wp

## Contact

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