Portable Emergency Drinking Water Treatment Device

1. The Portable Emergency Drinking Water Treatment Device is a high-efficiency filtration suitcase-type outdoor electric water purification equipment. The equipment adopts an overall lightweight design, with the outer box made of explosion-proof PP material, and the overall protection level can reach IP67; the internal support parts are made of high-strength magnesium-aluminum alloy material. Its simple and fast operation mode is very suitable for groups such as rescue teams, disaster shelter residents, and families for emergency use.
2. The minimum filtration precision of the Portable Emergency Drinking Water Treatment Device is approximately 0.0001 microns, and the raw water source can be Class I-III surface water and groundwater (TDS < 1000). It can remove substances such as sediment, rust, suspended solids, precipitates, bacteria, viruses, heavy metals, and salts from the raw water. The terminal produced water can be drunk directly. It has a built-in high-performance lithium battery and can work continuously for 4-6 hours.
3. The Portable Emergency Drinking Water Treatment Device adopts a dual-water outlet design of "domestic water/drinking water", which can be switched with one key according to the needs of different scenarios such as water volume, water quality, and usage purpose.

Technical Parameters

Model:	P04-120
Water Production Rate:	120L/h (drinking water), 120L/h (domestic water)
Total Purified Water Volume:	10000L (varies depending on water quality)
Filtration Media:	Reverse Osmosis: Fully aromatic high-crosslinking polyamide (filtration precision ≈ 0.0001 microns)Ultrafiltration Membrane: Ultra-low-pressure hollow fiber ultrafiltration membrane (filtration precision < 0.1 microns)
★ Water Purification Standard:	GB5749-2022 "Standards for Drinking Water Quality"CJ94-2005 "Standards for Purified Drinking Water Quality"
Water Source Type:	Class I-III surface water, groundwater (TDS < 1000)
Substances Removed:	Sediment, rust, suspended solids, precipitates, bacteria, viruses, heavy metals, salts, etc.
▲ Water Quality Switching:	One-key switching between domestic water and drinking water

▲ Protection Level:	IP67
▲ Power Supply Type:	Can be connected to external AC220V, can be connected to external solar panels, built-in lithium battery, battery life of 4-6 hours
Inlet Water PH:	6~9
Operating Temperature:	4℃~40℃
Material:	The outer box is made of explosion-proof PP material, and the internal support parts are made of high-strength alloy material
Color:	Black
Size:	560mm×430mm×250mm (L×B×H)
Weight:	14.5kg
▲ Carrying Method:	Hand-carried

Note: For the ★ parameter, a water quality test report issued by a third-party testing institution with MA and CNAS certifications can be provided. The report for GB5749-2022 includes tests on a total of 35 conventional physical and chemical indicators and microbial indicators in Table 1 and its continuation of the standard.

Implementation Standards

Effluent Water Quality	GB5749-2022 "Standards for Drinking Water Quality"CJ94-2005 "Standards for Purified Drinking Water Quality"
Protection Level	GB 4208-2008 "Degrees of Protection Provided by Enclosures (IP Code)" IP67 ATA-SPEC 300 "Air Transport Association Air Transport Packaging Box Standard"
Filtration Components	FDA (U.S. Food and Drug Administration) certification NSF International (U.S. National Sanitation Foundation) certification CE 1907/2006 REACH (screening test for 236 substances of very high concern)Sanitary License for Domestic Drinking Water Hygiene and Safety Products
Kinetic Module	UN38.3 "United Nations Manual of Tests and Criteria for Dangerous Goods Transport" - Operating Specifications for Rechargeable Lithium Batteries MSDS (Material Safety Data Sheet) Identification ReportIMDG40-20 "International Maritime Dangerous Goods Code" Identification Report ADR2023 "European Agreement Concerning the International Carriage of Dangerous Goods by Road" Identification Report IATA DGR 65th 2024 "International Air Transport Association Dangerous Goods Regulations" Identification Report

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Product images

Applications and Product Features

P04-120 field-team water supply illustration

P04-120 case layout and water treatment modes