

# Seawater Desalination System Man Portable – Case Enclosed



## Overview

### Main features

- ✓ 60 litres of clean water per hour
- ✓ Fresh water system
- ✓ Set up in 5 minutes
- ✓ Military Approved housing
- ✓ Integral power pack and pump
- ✓ Water drinkable within 2 minutes after turning on
- ✓ Man-portable



### Operation:

- 1 Connect the 2 hoses and place the free end of the inlet into the water source.
- 2 Switch On and the pump will start drawing water.
- 3 Bleed air from the system by pressing the black buttons.
- 4 Fresh drinking water is now available on demand; simply open and close the tap on the product hose as you would in a house

### Operational Costs and Benefits

- ✓ Filter life is infinitely variable and dependant of source water turbidity and volume of water processed.
- ✓ UVC LED life is up to 10,000 hours with unlimited on/off cycles.
- ✓ Low power consumption
- ✓ Fast return of investment over the cost of bottled water for operations in a remote environment.
- ✓ Reduced logistical issues.



# Safe, Reliable and Environment Friendly

## The system

The system is powered by a 12v battery providing a safe low voltage with added benefit of multiple charging options (car, mains, solar or generator). Charging is normally made via a quick release electrical connector on the top panel with the mains charger provided. A quick release panel reveals the battery terminals to enable multiple charging alternatives or even direct voltage application in the event of a fully discharged battery.

## Technical Data

### Pump UV Lamp

12v DC UVC LED disinfection system  
Fused: 12A Input power 12v DC  
Cut out pressure: 70 psi (4.8 bar) Power consumption 24W  
Maximum suction lift: 3m Fused: 2.5A

### Power Cell Charger

RED FLASH™ XP22-12 220-240V AC input  
Valve Regulated Lead-Acid Rechargeable Battery 14.6V  
DC/8A max output 12v 22Ah VRLA Battery

### Actual Operation Data

Production per hour 600 litres max  
Production per battery charge 1470 litres over 2.75 hours'  
max water Temperature 0-50°C

### Overall Dimensions

Width: 600mm Depth: 450mm Height: 400mm  
Weight Dry: 38kg; Wet: 44kg  
Inlet Hose: 3.0m  
Product hose: 1.5m

### Product Water Certification

UVC lamp microbiological testing in accordance with NSF and US EPA drinking water guidelines & tested for NSF/ANSI 372 & 61 compliance  
Full system microbiologically tested by UKAS approved laboratory  
Carbon filter chlorine taste and odour reduction tested in accordance with NSF/ANSI Standard 42 protocol

### Ingress Protection Rating: IP65

