

AQUARESPONSE 10

Emergency / Disaster Water Filter System



Disasters happen frequently all over the world. Whether the disaster is natural, such as, hurricanes, floods, earthquakes, or an act of man that leads to mass exodus of populations, the availability of safe, potable drinking water for the survivors and rescue teams is of paramount importance.

Rainfresh **AquaResponse10** is a packaged water treatment system designed to deliver microbiologically safe drinking water from surface water sources such as a lake, pond, river, cistern etc.

Featuring Rainfresh's high performance ultraviolet disinfection technology, **AquaResponse10** features a triple-stage treatment design. The first stage removes dirt, rust, sediment, silt, mud and other particulate matter. The second stage reduces organics and the third stage disinfects the water.

PROTECTS AGAINST

- Pathogenic bacteria e.g. E. coli
- Cysts (Cryptosporidium, Giardia)
- Viruses
- Sediment
- Chlorine (if present), organics, taste, odour

Rainfresh AquaResponse10 unit is ideal for:

- Disaster-relief first response
- Remote villages
- Mining camps
- Other applications where safe drinking water is required at high flow rates.



Clean, safe drinking water to over 20,000 people per day* !



BENEFITS

- 50,000 litres of clean safe drinking in just one day - serving approximately 25,000 people per day*
- Prevents water-borne sicknesses such as diarrhea, cholera, dysentery, E. coli infections, Giardiasis, Cryptosporidiosis, etc.
- Portable - can be easily picked by hand and moved around to deliver safe water to different areas.
- Effective disinfection including improved water taste & odour
- No Chemicals to Add – Very easy & economical to operate and maintain

* Based on drinking water requirements of 2L/person/day with system operating for 22 hours per day.

PERFORMANCE

- High water production rate – Up to 10 US Gal/Min (2.27 m³/Hr)
- UV delivers > 40mJ/cm² UV dose at rated flow
- 3-Stage Purification Process – 5 micron sediment filtration, 5 micron activated carbon filtration and disinfection by germicidal UVC (Plus intake strainer and bag 25 micron bag pre-filter)
- Inactivates water-borne **bacteria, viruses and parasitic cysts**

SPECIFICATIONS

Model	CAPACITY US GPM (LPM)	CASE DIMENSIONS	Electrical Reqmnt	Feed Water Pressure	Feed Water Temp.	Inlet / Outlet	Audio Visual Alarms	Lamp replacement alarm*
		H x W x D						
AR10	10 (37.8 LPM) 2.27 m ³ /H	30"x18"x19"	120V AC	20 psi (min) – 100 psi (max)	4°C (min) to 37°C (max)	¾" hose	Yes	Yes

* - Lamp life : 9,000 hours (approx. 1 year of continuous use)

FEED WATER CONDITIONS

Hardness	< 5 GPG	Iron	< 0.3 PPM
Manganese	< 0.05 PPM	% UV Transmittance	> 80%
Water pH	6.0 to 9.0	Total Dissolved Solids	< 1,000 PPM
Turbidity	< 5 NTU	Tannins	None

Water exceeding above parameters may require more frequent maintenance or cartridge replacement or pre-treatment

Optional accessory kit includes gas water pump, gas generator & hose.



ABOUT ENVIROGARD

For over half a century, Envirogard's imaginative products under the brand "Rainfresh" have lead the water filtration and treatment industry in Canada and over 40 countries worldwide. Envirogard products help millions of people all around the world to meet their needs for safe drinking water.



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