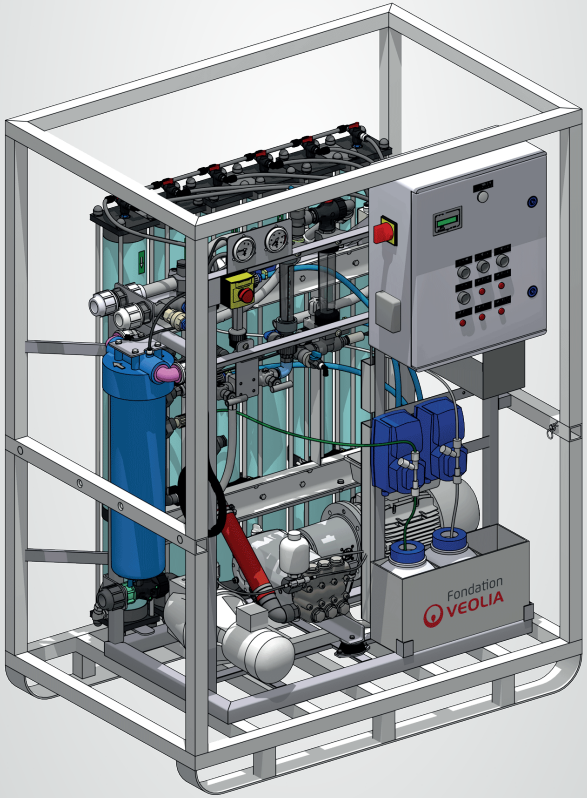
Aquaforce RO

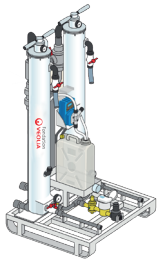
Mobile brackish water treatment unit

Capacity : 2,000 personnes



A solution for all types of terrain

▶ Aquaforce RO can be deployed on its own to treat brackish water. This reverse osmosis-based solution treats dissolved salts and other pollutants that cannot be eliminated by conventional filtration methods. In the case of highly turbid resources, Aquaforce RO can be combined with Aquaforce 2000.

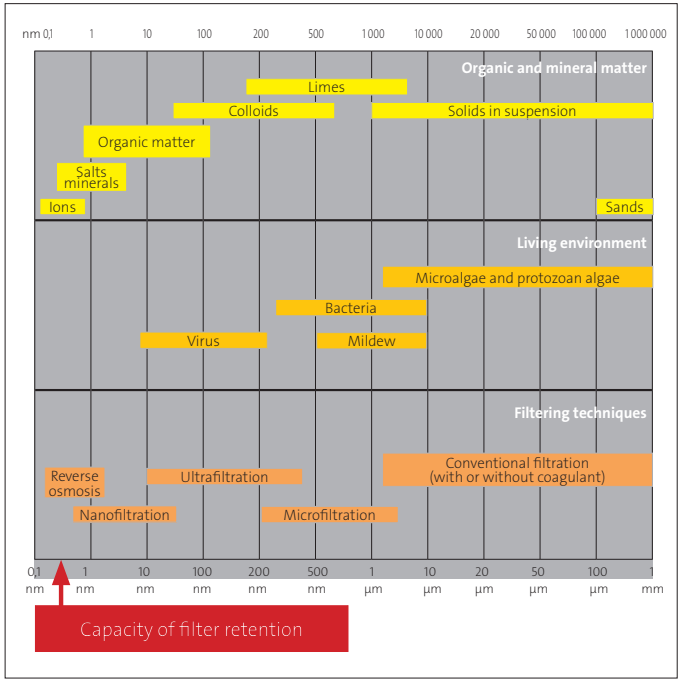


▶ Aquaforce 2000, a mobile ultrafiltration water treatment unit, is a proven solution for drinking water treatment in humanitarian contexts. It naturally stops all colloids and bacteria, as well as some of the viruses potentially present in raw water.

A range of solutions for every situation
with robust stations that are easy to transport and quick to deploy.

Reverse osmosis

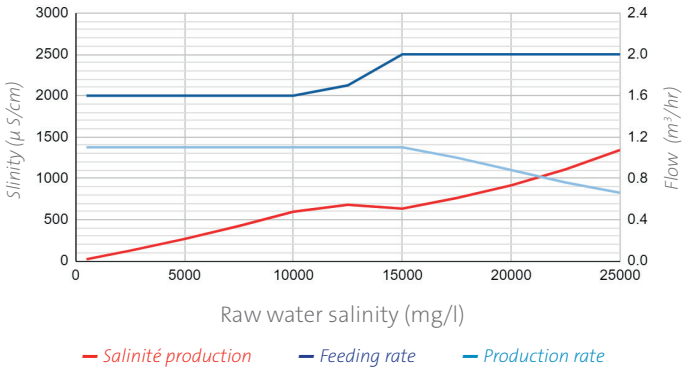
Reverse osmosis is a water treatment process based on the pressure of water forced through a semi-permeable membrane. In particular, it can be used to desalinate brackish water by eliminating dissolved salts.



In the field

Proven performance

Clean membranes, FF 0.85 @ 25°C



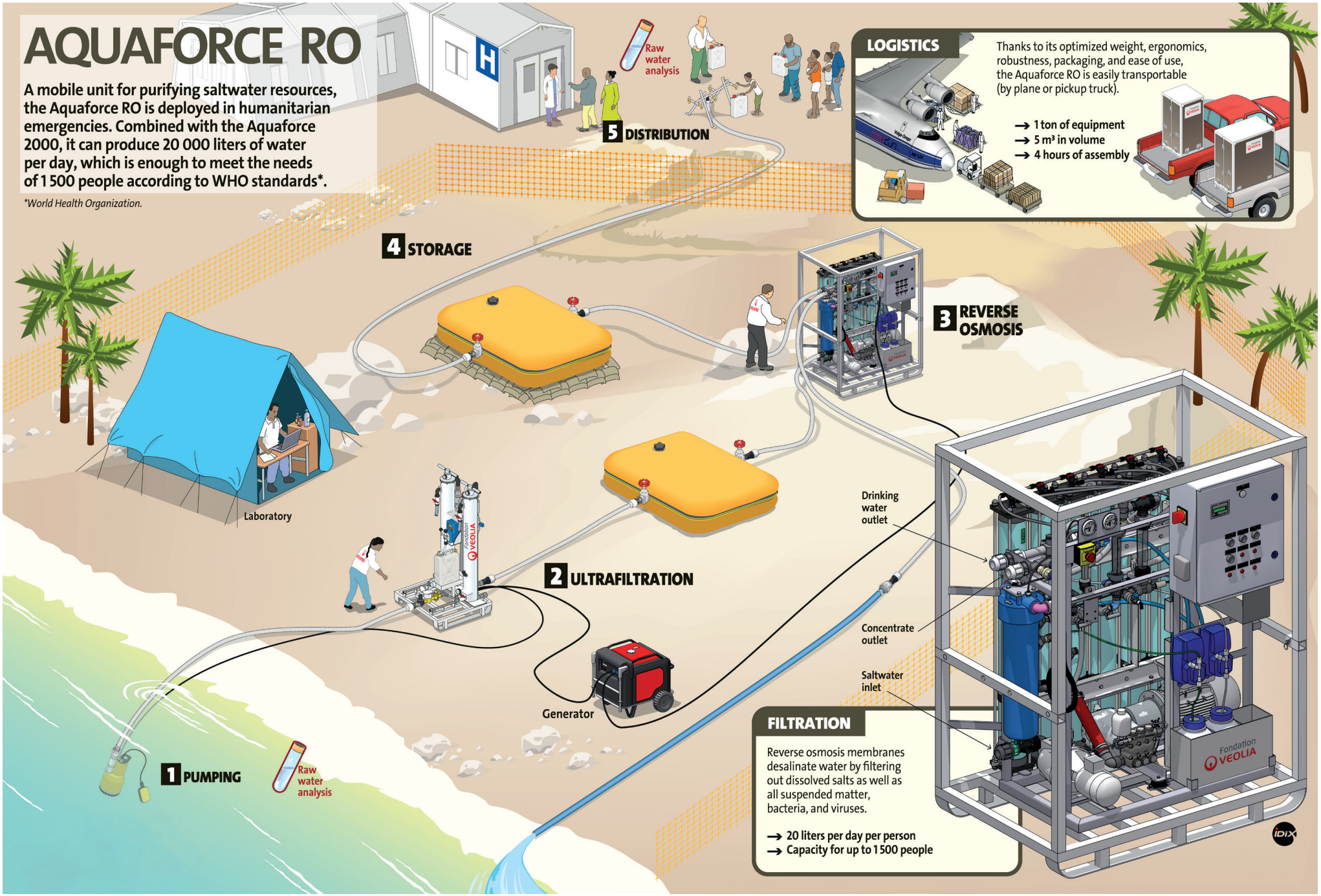
The system can treat brackish water up to 20,000 ppm, with permeate quality within WHO standards < 2000 µS/cm.

- ▶ Production flow rate under nominal conditions: 1.1 m³/h
- ▶ Inlet flow rate between 1.6 and 2 m³/h, fed by an Aquaforce 2000

TECHNICAL INFORMATION

Inlet flow	2 m³/h
Outlet flow	1.1 m³/h
Maximum inlet pressure	29,9 bar
Raw water salt concentration	1-15 g/ au débit nominal de 1,1 m³/h 20 g/L "max" admissible
HP pump power	2,2 kW
Safety features	- Wired safeguards: no PLC required for station operation - Pressure switches and valves guarantee pressure below 30 bar - Safety nets to protect the user
Quality control	Integrated on-line salinometer
Weight/volume of Aquaforce 2000 + Aquaforce RO package	4.5 m³ 800 kg on 5 pallets Handling possible

AQUAFORCE RO

A mobile unit for purifying saltwater resources, the Aquaforce RO is deployed in humanitarian emergencies. Combined with the Aquaforce 2000, it can produce 20 000 liters of water per day, which is enough to meet the needs of 1 500 people according to WHO standards*.

**World Health Organization.*