

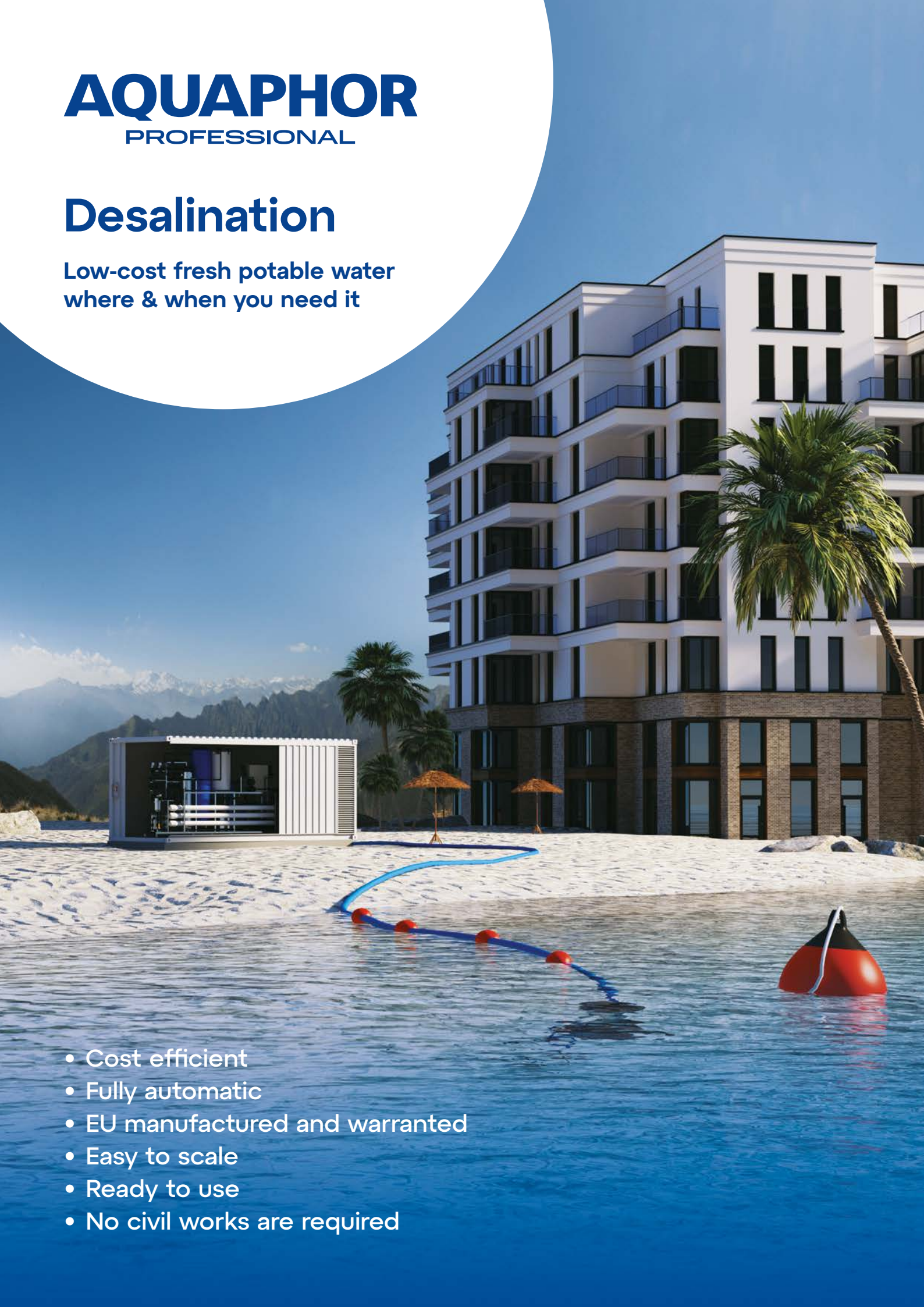
# AQUAPHOR

PROFESSIONAL

## Desalination

Low-cost fresh potable water  
where & when you need it

- Cost efficient
- Fully automatic
- EU manufactured and warranted
- Easy to scale
- Ready to use
- No civil works are required



**AQUAPHOR's desalination systems provide fully automatic freshwater production with high energy efficiency and environmental sustainability, ensuring non-stop freshwater supply.**

|  |         |                     |   |
|--|---------|---------------------|---|
| <b>We offer three classes of desalination systems for different water sources:</b> |         | <b>Salt content</b> |   |
|  | Class 1 | 20 – 45 g/L         | Pacific, Atlantic, Arctic and Indian oceans, Mediterranean sea, Red sea, Persian Gulf |
|  | Class 2 | 10 – 20 g/L         | Black sea, Caspian Sea  |
|  | Class 3 | 5 – 10 g/L          | Baltic sea, groundwater with high mineral content                                     |

**Patented multi-stage technology**



**Pretreatment**

Aquaphor's robust multi-stage, automatic prefiltration and bactericidal pre-treatment is a crucial first stage of the desalination process, aimed to ensure efficient performance of the downstream equipment and lifespan of the membranes.



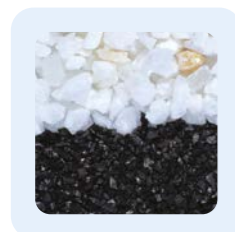
**Ultrafiltration**

AQUAPHOR's patented multi-stage Ultrafiltration technology is a modern, highly efficient back-washable technology for water filtration prior to desalination. The ultrafiltration membrane is an absolute barrier for filtering particles 0.1 to 0.01 microns, including bacteria, viruses, and colloids. Used for Class 1 & Class 2 desalination.



**Reverse Osmosis**

Reverse osmosis (RO) is a water purification technology that uses a semipermeable membrane to remove salt ions and molecules from saline water. AQUAPHOR reverse osmosis is fully automatic and provides stable & efficient operation with low energy and chemical consumption.



**Mineralization**

The final treatment stage is the remineralization column, which adds healthy minerals (magnesium and calcium) to improve drinking taste and ensure healthy, safe water consumption. AQUAPHOR utilizes proprietary mineralization formula that keeps safe neutral pH and provides tasty and healthy balance of minerals.

**AQUAPHOR's desalination systems provide fully automatic process with high energy efficiency and environmental sustainability, ensuring non-stop freshwater supply.**

**Pacific, Atlantic, Arctic and Indian oceans, Red Sea, Mediterranean Sea, Persian Gulf**

The compact, modular, mobile, rapidly deployable system for efficient on-site seawater desalination with UF pre-treatment. Perfect for off-grid locations, resorts, and islands and as a backup source of potable water.



|                                  |            |            |             |             |             |              |
|----------------------------------|------------|------------|-------------|-------------|-------------|--------------|
| <b>Liters/hour</b>               | <b>250</b> | <b>500</b> | <b>1000</b> | <b>2000</b> | <b>6000</b> | <b>10000</b> |
| <b>GPM</b>                       | 1.1        | 2.2        | 4.4         | 8.8         | 26.4        | 44           |
| <b>Max inlet TDS, ppm</b>        | 40 000     | 40 000     | 40 000      | 40 000      | 40 000      | 40 000       |
| <b>Operational pressure, bar</b> | up to 80   | up to 80   | up to 80    | up to 80    | up to 80    | up to 80     |

**Black Sea, Caspian Sea**

Skid-mounted, automated system for a broad range of capacities. The ultimately efficient desalination solution for a variety of municipal and industrial applications.

|                                  |             |             |             |              |              |              |
|----------------------------------|-------------|-------------|-------------|--------------|--------------|--------------|
| <b>Liters/hour</b>               | <b>1000</b> | <b>4000</b> | <b>6000</b> | <b>12000</b> | <b>20000</b> | <b>50000</b> |
| <b>GPM</b>                       | 1.4         | 17.6        | 26.4        | 52.8         | 88           | 220          |
| <b>Max inlet TDS, ppm</b>        | 20 000      | 20 000      | 20 000      | 20 000       | 20 000       | 20 000       |
| <b>Operational pressure, bar</b> | up to 50    | up to 50    | up to 50    | up to 50     | up to 50     | up to 50     |



**Baltic Sea, groundwater with high mineral content**

The compact Plug&Play system with all components is installed on a single frame to minimize the footprint and ease of maintenance. Perfect for small communities, resorts, off-grid households, and light commercial use.

|                                  |            |            |             |             |
|----------------------------------|------------|------------|-------------|-------------|
| <b>Liters/hour</b>               | <b>250</b> | <b>500</b> | <b>1000</b> | <b>2000</b> |
| <b>GPM</b>                       | 1.1        | 2.2        | 4.4         | 8.8         |
| <b>Max inlet TDS, ppm</b>        | 10 000     | 10 000     | 10 000      | 10 000      |
| <b>Operational pressure, bar</b> | up to 30   | up to 30   | up to 30    | up to 30    |



**European. Affordable. Excellence**

**AQUAPHOR**  
PROFESSIONAL

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