

Application story



Reverse Osmosis for Remote Locations

Location	Finland	Hydra-Cell model	G03XKSTSNECG / G10XKSTSNECB / G25XKSTNNECB
Type of application	Reverse Osmosis for Remote Locations	Flow rate	G03 Up to 11 l/min (3 gpm) / G10 Up to 30 l/min (8 gpm) / G25 Up to 75 l/min (20 gpm)
Liquid	Brackish Water Seawater	Pressure	G03 Up to 17 bar (246 psi) / G10 17 - 51 bar (246 - 740 psi) / G25 17 - 51 bar (246 - 740 psi)

Application details Hydra-Cell® in Self Sufficient Drinking Water Production

Finnish company Solar Water Solutions manufactures cost-efficient and eco-friendly, off-grid reverse osmosis (RO) systems for producing clean drinking water in remote locations.

The stand-alone units operate with solar energy, without any batteries or energy storage. The compact integrated mobile units operate automatically as "plug and play" systems and require little maintenance. Ideal for houses and small villages in off-grid locations, the modular design makes them scalable to accommodate virtually any requirement.

The company chose Hydra-Cell pumps for their ability to handle particle-laden feed water with ease and their low maintenance requirement. The pumps low maintenance requirement is essential for units operating automatically in remote locations and the fact that it can run dry without damage was also very influential.

Their ability to run dry without damage is a further major benefit for systems operating automatically in remote locations where neglect is always a possibility.

Advantages of Hydra-Cell pump on this application

Hydra-Cell was chosen for this application for the following reasons:

- Ability to pump water with particles, with ease.
- Very low maintenance, which is so important when installed in remote locations
- Offers a compact pump, with small foot print, ideal for these modularised systems.

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