

PRESENTATION OF SMART ECO WATER TECHNOLOGY, USEFULNESS AND ADVANTAGES FOR USE IN HOTELS

Manufactured by: www.smartecowater.com.

Focused on efficiency, sustainability and savings

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1. INTRODUCTION TO TECHNOLOGY

What is Reverse Osmosis?

Reverse osmosis is an advanced purification technology that removes up to 99% of dissolved salts, particles, colloids, organics, bacteria, and pyrogens from water. This process uses semi-permeable membranes that filter pollutants at the molecular level, providing the highest quality water.

Specific application in desalination:

The desalination modules are specifically designed to desalinate seawater and purify water for all hospitality applications, being especially effective with seawater containing more than 30,000 ppm of salt.

Why do hotels need desalination solutions?

- High water demand: Hotels require large amounts of drinking water for guests, cleaning, swimming pools, kitchen, gardens, etc.
- Location in coastal areas: Many hotels are located in regions with limited access to fresh water but close to saltwater sources.

- Sustainability: The hotel industry seeks to reduce its environmental impact and optimize resources.

In the hospitality sector, ensuring high-quality water is essential for guest satisfaction, operational efficiency, and environmental sustainability.

The reverse osmosis desalination modules manufactured by **Smart Eco Water**, offer a particularly relevant solution for hotels in coastal areas or with limited access to fresh water.

The reverse osmosis desalination modules manufactured by **Smart Eco Water** represent an innovative and efficient solution for the hotel sector, offering advanced technology for obtaining high-quality drinking water from seawater or brackish water.

2. MAIN PROFITS IN HOTELS

Hotels, especially in coastal areas or areas with freshwater shortages, face critical challenges in ensuring a stable and secure supply of water.

The reverse osmosis (RO) desalination modules manufactured by **Smart Eco Water** offer an innovative, efficient and sustainable solution.

Its main uses, advantages and benefits are explained below:

Drinking Water Supply

- Guarantee of constant drinking water: Hotels can ensure that they will always have drinking water that meets quality standards within their facilities.
- Ensures clean, safe, and hygienic water for guests.
- Effective elimination of pathogenic microorganisms, turbidity and organic contaminants.
- Removes up to 99% of dissolved salts, bacteria and contaminants.
- The water is delivered free of salts, heavy metals and pollutants, ideal for human consumption, cooking and services.
- Problems such as brackish taste or water hardness are eliminated.
- Provides superior quality water for direct consumption.
- Continuous supply of drinking water: They transform seawater or brackish water into water suitable for human consumption or technical water, ensuring availability even in dry seasons.

Gastronomic Applications

- Pure water for kitchens and restaurants.
- Food and beverage preparation
- Improved taste in beverages and foods
- Compliance with international health standards



■ Room Water

Showers, sinks and toilets.

■ Recreational Areas in Pool & Spa Systems

- High-quality pool water
- Reduction of chemicals needed for treatment
- Better guest experience

■ Laundry Services:

Technical water for washing clothes and props, prolonging the useful life of fabrics and machinery.

■ Green and transit areas:

- Watering gardens, pots, hedges, trees, etc.
- Cleaning of common areas, corridors, terraces, walls, etc.

3. COMPETITIVE ADVANTAGES

■ Ease of Installation and Maintenance

Reverse osmosis systems are easy to install and maintain, with process automation significantly reducing operating costs and the need for specialized personnel.

Advanced Technology

- Equipment with certifications and quality analysis.
- Full technical documentation available.
- Automated systems with low energy consumption and remote monitoring.
- Compact and modular design, adaptable to different capacities (from small installations to large resorts).
- Durable filters and membranes, with alerts for timely changes and backwashing, to increase the life of filters and membranes.
- Unique corrosion resistance of our modules, up to 15 years.

Technical Advantages

- High energy efficiency: They consume less energy compared to equipment from other operators in the market, between 1.7 and 2.8 kW per m3, reducing operating costs.
- Durable Membrane Technology: Designed to minimize fouling and maintain high productivity, and include a flushed challenge system to extend filter and membrane life.
- Scalability: Modular systems that adapt to the demand of the hotel, from small facilities to large complexes.
- Easy to operate, without the need for extensive technical expertise.
- Fully automated system, controlled by the team's own software.
- Sending and collecting operating data, via internet connection.
- Remote monitoring via IOT to detect faults and optimize maintenance through a computer device.
- Compact and modular: Easy installation and adaptability to small spaces.
- Low maintenance: Durable and high-quality components.
- Customization: Solutions adapted to the specific needs of each project, hotel or facility.

Key technical data

- Capacities: Modules from 10,000 to 100,000 litres/day.
- Possibility of increasing the supply flow to the amount needed.
- Energy consumption: 1.70 to 2.8 kWh/m3 (30% lower than the industry average).
- Resistance of components to corrosion of up to 15 years.

Operational Efficiency

- Maximum use of water.
- Compact filtration systems.
- Easy maintenance and replacement of components.

■ High Purification Efficiency

- Effective removal of harmful bacteria, viruses, heavy metals, and chlorine
- 99.99% removal of germs and contaminants.
- Water quality superior to international standards.

Water Quality

- Elimination of bacteria, viruses and heavy metals.
- Reduction of chlorine and other chemical contaminants.
- Water with superior organoleptic characteristics.

■ Application Versatility

- Suitable for different water sources (sea, well, river, lagoon, reservoir).



Ecological solutions for the use of water
Solutions ecológicas para el aprovechamiento del agua
Solutions écologiques pour l'utilisation de l'eau
Soluzioni ecologiche per l'utilizzo dell'acqua
Экологические решения по использованию воды

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- Scalable according to the hotel's needs.
- Installation in efficient spaces.
- Prevents corrosion and damage to equipment.

4. ECONOMIC, OPERATIONAL AND ENVIRONMENTAL BENEFITS

Cost Reduction - Economic Savings.

- Significant reduction of pressure on local water resources.
- Elimination of dependence on bottled water or tanker trucks.
- Elimination of dependence on water from the public network.
- Optimisation of energy consumption.
- Lower cost per liter of produced water in the long term.

Water Independence

- Reduces dependence on external supplies.
- Ensures continuous water availability.
- Especially useful in coastal areas with water scarcity.
- Compliance with LEED or BREEAM standards for green hotels

Operational Sustainability

- By further using our purification system, hotels can reuse on-site treated wastewater, significantly reducing the pressure on water resources, creating a more sustainable cycle.
- Reduction of carbon footprint by eliminating water transport.
- Use of local resources (seawater, well, river).
- Possibility of reusing treated water in gardens or cleaning.
- Contribution to the circular economy.

Added Value to the Business

- Tourism can represent a rich source of income to improve water supply systems.
- It improves the corporate image as an eco-responsible establishment.
- Competitive differentiation in the market.
- Improved guest satisfaction.
- Competitive differentiation in the market.
- Regulatory compliance: Complies with international drinking standards (WHO, EPA).
- Green image: Attract eco-conscious travelers by demonstrating commitment to sustainable resources.
- Energy efficiency: Our modules have an energy efficiency certificate, which favours the image of the establishment.
- Increased satisfaction from environmentally conscious guests.

Reputation Enhancement:

- "100% safe water" certification as a marketing argument.
- Attraction of environmentally conscious customers.

5. IMPACT ON SUSTAINABILITY

Environmental Benefits

- Reliable and drought-resistant water supply.
- Reduction of the carbon footprint of water transport.
- Less impact on local aquifers.

Corporate Social Responsibility

- Contribution to the conservation of natural resources.
- Support for the sustainable development of tourism.
- Compliance with international environmental certifications.

6. CONCLUSIONS

Key Benefits of Smart Eco Water

1. Proven technology with 99% removal of contaminants.
2. One-stop solution for all hotel water needs.
3. Profitable investment with guaranteed return.
4. Automated operation with minimal maintenance.
5. Contribution to sustainability and environmental responsibility.

Smart Eco Water **modules** are a strategic investment for hotels, combining efficiency, savings and environmental responsibility.

Their adaptability and technology make them the ideal choice to ensure a premium service while optimizing and leveraging resources.

Smart Eco Water **modules** not only solve immediate supply problems, but also position hotels as leaders in innovation and sustainability.





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Their proven technology, backed by technical advantages and economic benefits, makes them a strategic investment for the hospitality industry.

Offer:

Smart Eco Water offers various models that can be adapted according to needs:

- Manual and automatic equipment
- Different production capacities
- Systems for technical and drinking water, in addition to its wastewater treatment system.
- State-of-the-art reverse osmosis technology, up to 5 years more advanced than that used by any other operator on the market.

Superior water quality.

- Superior quality of service.
- Reduction of operating costs.
- Commitment to environmental sustainability.
- Long-term profitability.

The implementation of our technology not only ensures a consistent supply of superior quality water, but positions the hotel as a leader in sustainability and environmental responsibility.

⌚ Final Recommendation

Smart Eco Water's **reverse osmosis desalination modules** represent an essential strategic investment for hotels looking to:

- Water independence.

For more information:

- Full technical documentation available in PDF format.
- Informative videos available on our website: www.smartecowater.com
- Personalized advice according to specific needs
- Feasibility analysis for each hotel project.

Note: For specific cases (e.g. hotel size, location, type and quality of source water), a personalized technical evaluation is recommended.

If you want to delve into any aspect, do not hesitate to contact our sales department, we will be happy to answer your questions and offer you solutions suitable for your needs.

Request a personalized study from our technical department to calculate the specific ROI of your hotel.
Smart Eco Water Group, S.L.

Transforming seawater and brackish water into sustainable opportunities for the hospitality industry.

 **CONTACT**
