



Innovative Water System Battery Installation at Calypso Club

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The Calypso Life Club Structure

A modern and complete facility

The Calypso center is a 3500 m² facility comprising a sports area with gyms and swimming pools, and a refreshment area coordinated by common spaces.

An environment designed for the complete well-being of users, integrating sport, relaxation, and quality services.



The Plumbing System: Numbers and Features

44

Showers

Distributed between
changing rooms and
facilities

34

Sinks

In clinics and technical
rooms

12-16

m³/hour

Water delivery capacity

2000

m³/year

Average annual
consumption

The system supplies the bar with all appliances (coffee machine, cup washer, ice maker, dishwasher) and the thermal area, where a Turkish bath with a boiler for steam generation is installed.





Problems Before IWS Installation

From December 2008 to May 2018, the system was served by a water softener with a salt consumption of 6000 kg/year. This system presented numerous critical issues that impacted both users and maintenance.

Water Quality

Unpleasant water taste (salty) and daily limescale deposits on shower tiles

Shower Maintenance

Mandatory maintenance every three months for cartridges, buttons, and nozzles to prevent blocks and clogs

Turkish Bath Boiler

Scaling leading to operational compromise, with mandatory quarterly maintenance

Costs of the Softener System

Softener Salt

1,400 €/year

6000 kg of salt annually

Wash Water

900 €/year

30% softened water (600 m³)

Maintenance

Additional costs for:

- Ordinary softener maintenance
- Shower maintenance
- Extraordinary cleaning
- Turkish bath boiler

The Installation of the IWS System

May 2018: The Turning Point

With the installation of the new battery regenerator system, the use of the water softener was excluded. The system immediately guaranteed correct pressure, and no anomalies occurred in the ordinary operation of the services.

A radical change that transformed the user experience and drastically reduced management costs.





Water Quality: An Extraordinary Change

The impression is of
drinking high-altitude
spring water

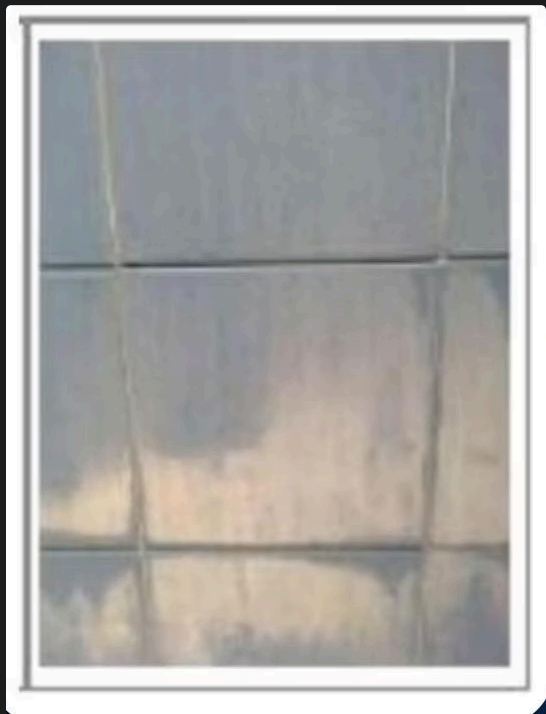
The initial perception from users and collaborators was a change in the water's taste, which is now pleasant, light, and refreshing.

To date, the bar, the wellness area, and the health center all offer "regenerated" water to users, which can be found in various areas of the facility.

Visible Results: Before and After

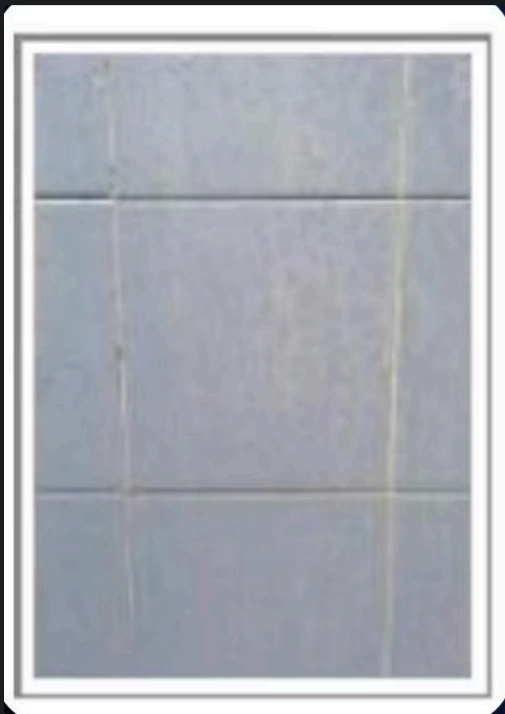
Limescale Deposits

BEFORE



Evident and daily deposits

AFTER



Significant reduction in deposits

Shower Functionality

BEFORE



Mandatory quarterly maintenance

AFTER



Maintenance suspended without issues

Limescale deposits on shower tiles have significantly reduced, lowering the routine cleaning effort. Since installation, maintenance of buttons and nozzles has been suspended without encountering any problems with shower functionality.

Steam Boiler Turkish Bath: Zero Limescale



Exceptional Result

Since the last maintenance of the Turkish bath's steam boiler, after **10 months of use**, the boiler shows no signs of limescale.

Therefore, maintenance has been postponed, leading to significant savings in terms of time and costs.

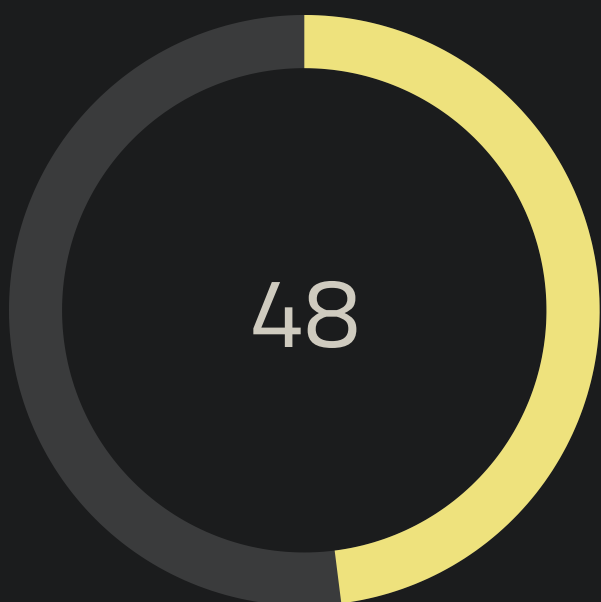
Total Savings and Customer Feedback

Quantification of Annual Savings



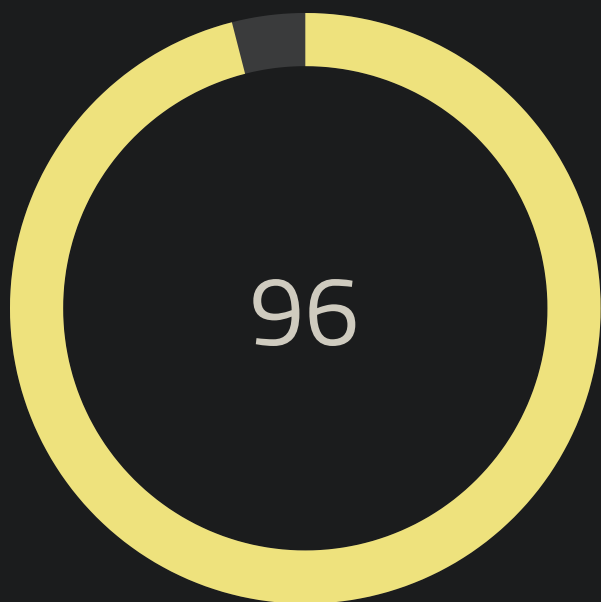
Euro/Year

Elimination of softener costs, salt, and rinse water



Hours/Year

Elimination of ordering, storage, and salt management



Hours/Year

Reduced shower cleaning effort



Euro/Year

Elimination of steam room boiler maintenance



New System Maintenance Commitment

Quarterly general pre-filter cartridge maintenance and replacement of activated carbon in 4 pre-filters (once/year): approximately 800 euros

Customer Feedback

- Customers have not experienced the slightest inconvenience with the services
- The taste of the water is pleasant, as reported by many customers
- Customers report greater relaxation during showers
- Tap water is refreshing
- The welcome with regenerated water is highly appreciated before and after therapy or workouts