



Installation of the innovative battery-powered water system at the Calypso Club

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The structure of Calypso Life Club

A modern and complete facility

The Calypso Center is a 3500 square meter facility that includes a sports area with gyms and swimming pools, and a relaxation area coordinated by common spaces.

An environment designed for the complete well-being of users, where sport, relaxation, and high-quality services are integrated.



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 flow rate

2000

m³/year

Average annual
consumption

The system supplies the bar with all equipment (coffee machine, glass washer, ice machine, dishwasher) and the spa area, where a Turkish bath with a boiler for steam production has been installed.





Problems before IWS system installation

From December 2008 to May 2018, the system relied on a water softening device that consumed 6000 kg of salt annually. This system presented numerous critical issues that affected both users and maintenance.

Water Quality

Unpleasant water taste (salty) and daily limescale build-up on shower tiles

Shower Maintenance

Mandatory quarterly maintenance of cartridges, buttons, and nozzles to prevent blockages and agglomerates

Turkish Bath Boiler

Limescale accumulation leading to malfunctions, with mandatory quarterly maintenance

Costs of the water softening system

Softener salt

1,400 euros/year

6000 kg of salt per year

Rinse water

900 euros/year

30% softened water (600 m³)

Maintenance

Additional costs for:

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

IWS System Installation

May 2018: The Turning Point

With the installation of the new battery regeneration system, the use of the water softening system was eliminated. The system immediately provided the correct pressure and no problems occurred in the normal operation of the services.

A radical change that transformed the user experience and significantly reduced operating costs.





Water Quality: An Exceptional Change

The impression is of drinking high mountain spring water

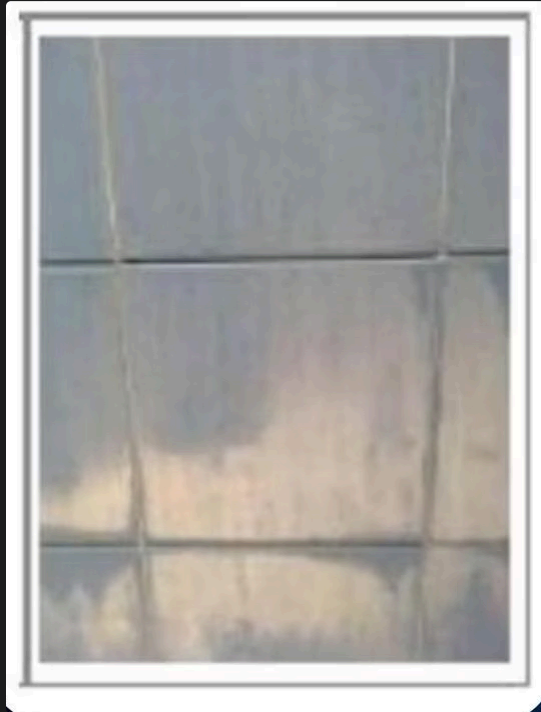
The initial perception of users and staff was a change in the taste of the water, which became good, light, and refreshing.

Even today, the bar, wellness area, and fitness center offer users "regenerated" water, which can be found in various areas of the facility.

Visible Results: Before and After

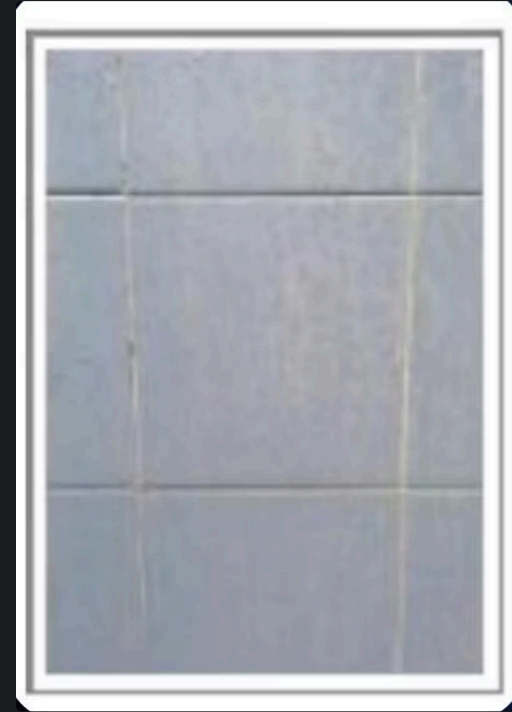
Limescale Deposits

Before



Daily and visible deposits

After



Drastic reduction in deposits

Shower Functionality

Before



Mandatory quarterly maintenance

After



Maintenance suspended without issues

Limescale deposits on the shower tiles have significantly decreased, reducing ordinary cleaning effort. Since installation, maintenance of buttons and nozzles has been suspended without any issues with shower functionality.

Turkish Bath (Steam Generator): No Limescale



Exceptional Results

Since the last maintenance of the Turkish bath steam generator, and after **10 months of use**, the generator shows no signs of limescale.

Consequently, maintenance has been postponed, resulting in significant time and cost savings.

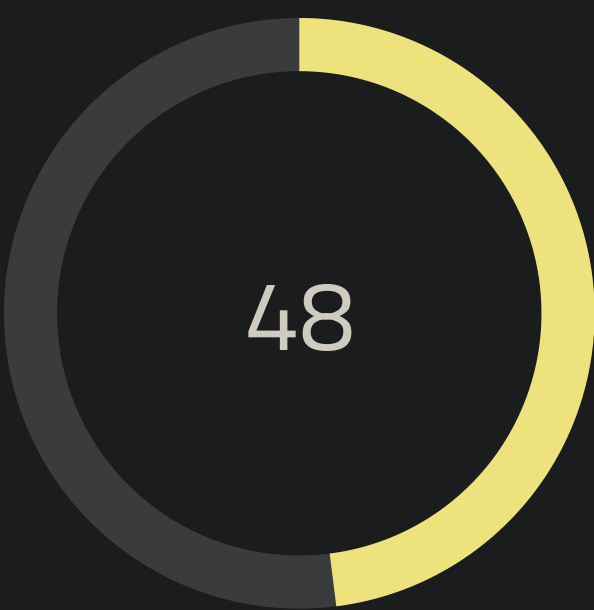
Total Savings and Customer Feedback

Quantification of annual savings



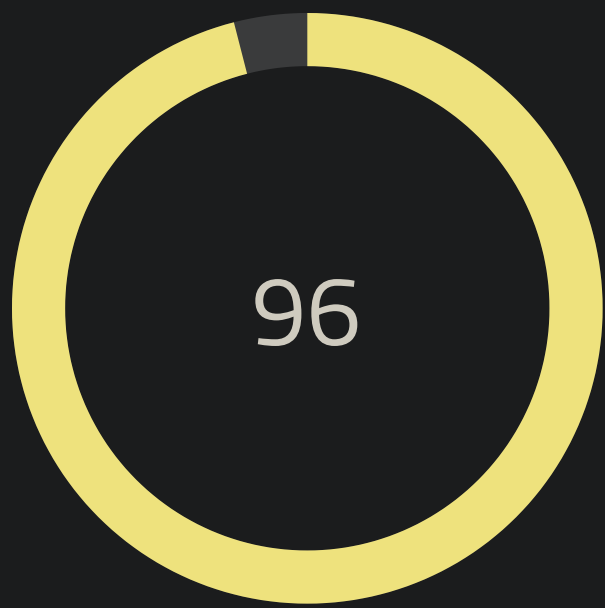
Euros/year

Elimination of costs for water softener materials, salt, and rinse water



Hours/year

Elimination of salt ordering, storage, and management activities



Hours/year

Reduction of shower cleaning effort



Euros/year

Elimination of hammam boiler maintenance



Maintenance commitment for the new system

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

Customer Feedback

- Customers have not experienced the slightest inconvenience regarding the services
- The taste of the water is pleasant, as reported by many customers
- Customers report greater relaxation during the shower
- The tap water is refreshing
- The welcome with regenerated water is much appreciated before and after treatments or workouts