



• SWIMMING POOLS

Spa Pool Water Case Study Wallisellen, Switzerland

HydroFLOW® reduced fresh-water use by 40% at Water World Wallisellen, saving 8,400 m³ of water and CHF 42,302 in annual operating costs.

40%

Reduction in Pool Fresh Water Use

8,400 m³

Annual Water Savings

39k

kWh Heating Energy Saved Yearly

CHF 42k

Annual Operating Cost Savings



BEFORE & AFTER

● BEFORE

- Fresh water use was 100 litres per guest
- Annual water use totalled 21,000 m³
- Heating required 97,700 kWh per year

● AFTER

- ✓ Fresh water fell to 60 litres per guest
- ✓ Annual water use fell to 12,600 m³
- ✓ Heating fell to 58,620 kWh per year



OVERVIEW

Water World Wallisellen is a spa facility in Switzerland with a reported circulation rate of 400 m³/h and a filtration area of 104 m². With approximately 600 guests daily, the facility has significant fresh-water requirements. Reducing water consumption offered an opportunity to lower water, wastewater disposal and heating costs.



CHALLENGE

High fresh-water demand increased water, wastewater and replacement-water heating costs.

- Fresh water consumption was 100 litres per guest.
- Annual fresh-water demand reached 21,000 m³.
- Replacement water added to heating demand.



SOLUTION

A HydroFLOW® unit was installed on the spa pool circulation system. The reported operating conditions were maintained while fresh-water demand decreased.

CIRCULATION RATE

400 m³/h

FILTRATION AREA

104 m²



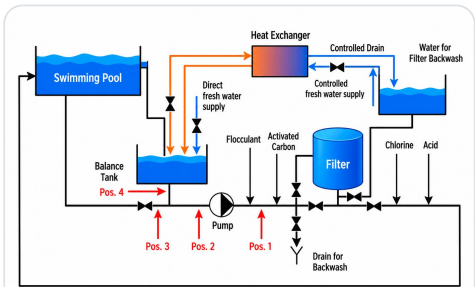
SITE

Spa pool circulation and filtration equipment



INSTALLATION

HydroFLOW® unit installed on pool pipework



DIAGRAM

Spa pool water treatment system layout



RESULTS

💧 40% Less Water Per Guest

Fresh-water use decreased from 100 to 60 litres per guest.

📉 8,400 m³ Less Water Annually

Annual fresh-water demand fell from 21,000 to 12,600 m³.

⚡ 39,080 kWh Heating Energy Saved

Annual heating energy fell from 97,700 to 58,620 kWh.

💰 Lower Water and Disposal Costs

Annual fresh-water and wastewater costs fell by CHF 40,740.

🔧 Lower Replacement-Water Heating

Annual fresh-water heating costs fell from CHF 3,907 to CHF 2,345.

💰 CHF 42,302 Annual Savings

Combined annual water, wastewater and heating savings totalled CHF 42,302.

KEY TAKEAWAY

Summary

At Water World Wallisellen, fresh-water consumption fell by 40%, from 100 to 60 litres per guest. Annual water savings reached 8,400 m³, while heating energy demand decreased by 39,080 kWh. Reported combined water, wastewater and heating savings totalled CHF 42,302 annually.

40%

LESS WATER PER GUEST

8,400 m³

ANNUAL WATER SAVINGS

CHF 42k

ANNUAL OPERATING SAVINGS

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