smixin™

CASE STUDY

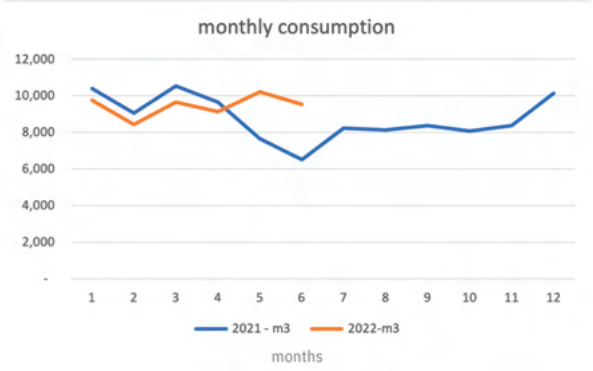
Water and Money Saving Through Technology

INTRODUCTION

In past years, water and its conservation - have become a key topic around the world and it will continue to be of high importance in the society. Global warming increasing population and agricultural activities have more than doubled the global annual water consumption, from about 2.5 billion m^3 in 2020 to over 5 billion m^3 today. According to the UNESCO, over 22% of water is being used for domestic purposes. Factually, bigger industrialised countries use over 70 times more water than less industrialised ones. In the domestic consumption the faucet use (tap water) accounts for approximately 20% in comparison with the 24% for toilets. On an average each faucet is being used 51 times per day for about 2 litres per use (primarily for washing hands). Therefore, the focus of the study is to reduce the consumption of water without compromising on the quality of hygiene.

CASE STUDY

One of the largest shopping malls in ASIA had decided to improve their water consumption and save costs on water, especially as post COVID visitor frequency had significantly increased and the visitors would want to wash their hands more frequently. According the facility manager of the mall, the water consumption has rose by about 30% despite of the reduced frequency (about 50%) of visitors in the mall. As part of this strategy, the management were also looking at different possibilities for faucets in their washrooms.



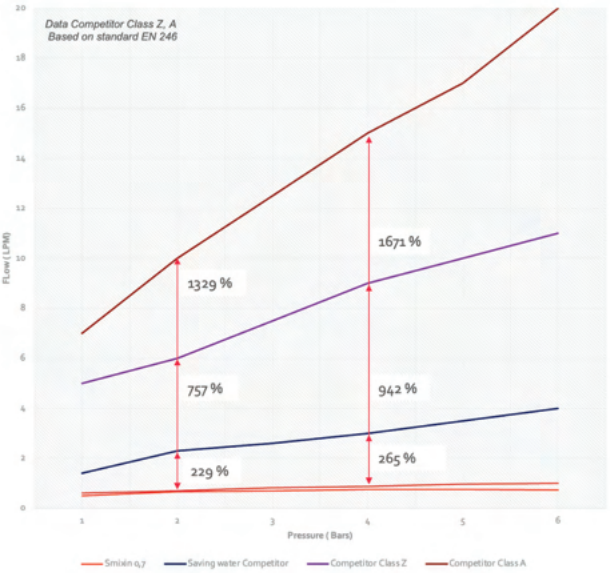
Reference:

1 https://prudentwater.com/globaler-wasserbericht/
2 https://www.unesco.org/reports/wwdr/2022/en
3 https://www.usgs.gov/mission-areas/water-resources/-science/domestic-water-use

In 2021, the annual consumption was about 105'000 cubic meters and it rose by approximately 8% in 2022 . This amounts to a total cost of USD 290'000 per year - of which about USD 70'000 is only from the water consumption of taps.
After a very thorough analysis the customer decided to choose COMFORT from Smixin.
The reasons to choose were that Comfort is sensor operated-touchless, high quality, economical and affordable solution.

To visually illustrate the actual water savings, two aquariums were installed allowing the customers to check and measure the water consumption during the test in real time. The difference in the water levels between the two aquariums, evidently revealed the striking differences between the two products.

In comparison with various types of water taps and the impact of pressure on water consumption, it reveals that there is a clear possibility to reduce water consumption and save money at the same time.



In this case the customer was able to reduce cost from **USD 70'000 to USD 7'500 (89%)** using Smixin whilst the closest competitor would have only reduced it to USD 17'100 (75%).
With these figures the customer receives an ROI under only one year. *Considering the fact that the quality standards available today allow for a 5-10 years warranty on the total savings amount, summing up to over USD 500'000 over the lifetime from the time of installation.

ADDITIONAL VALUE

In addition to it, customer decided to monitor every single tap (for an additional fee) installed in their shopping mall and linked to their internal systems to detect anomalies in usage/ location and further optimise their infrastructure.

CONCLUSION

For many companies ESG and ROI are not often achieved together. However with Smixin, people and planet both are benefitted for years.

"The handwash that makes everyone smile"

Contact us:

Rue Centrale 115 - 2503 Bienne - Switzerland

info@smixin.com - www.smixin.com