

HydroFLOW Case Study - Texas Hotel

Potable hot water system - Limescale reduction

January 2023



Background

The Customer

Four-story hotel with 136 rooms in San Antonio, Texas.

The Customer's Pain Point

San Antonio has extremely hard water of 357 PPM (21 GPG).

Prior to the installation of two *HydroFLOW i100* units, the hotel was forced to provide discounts on rooms, and in some cases full refunds, due to very low water pressure and lack of hot water.



Hard limescale in the water heater's strainer



Limescale chunks in showerhead



Plugged-up a faucet aerator

Installed Equipment

In the beginning of 2022, ECO HydroFlow (<https://www.ecoiti.com/hydroflow/>) installed two i100 *HydroFLOW* water conditioners on the main water lines feeding the hotel's tankless water heaters.



Tankless water heaters and *HydroFLOW* devices

Results

- A few days after the installation, “soft” scale began to purge out of the hot water system.
- One month after the installation, flow rates started to drastically improve; alarms that would sound weekly due to low flow rates, are very rarely heard.
- Previously clogged showerheads and faucet aerators have minimal debris.
- Cleaning the tankless water heaters is 75% less frequent and much easier; harsh chemicals are no longer required.
- Twelve months after installation, the estimated return on investment (ROI) is well under a year.
- An added benefit is *HydroFLOW*'s ability to deactivate pathogens such as *E. coli* and *Legionella* and remove biofilm from water systems.



Clean strainer during routine maintenance



Showerhead with a little debris



Faucet aerator with negligible debris

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