Embrace the Technology®
CircuitSolver®
A ThermOmegaTech® brand

Project Case Study

Hilton Garden Inn

Denver Tech Center - 7675 E Union Ave, Denver, CO 80237

Installation Site Overview



The Hilton Garden Inn is a 6-story modern hotel located in the heart of the Denver Tech Center in Denver, Colorado.

Located just off Interstate 25 at the Belleview exit, the hotel features 180 guest rooms plus 6 meeting rooms with a total event space of 4,540 sq. ft. Also included on-site are a Garden Grille & Bar, an indoor pool, a fitness center, and a business center.

The Opportunity

The Hilton Garden Inn was experiencing issues with their hot water recirculation system where one side of the building was hot, and the other side was cold. These fluctuations were common during periods of low occupancy and became even more frequent during the COVID-19 pandemic.

The hotel turned to Braconier, a plumbing contractor in the Denver area, for help. Chris Watts, Plumbing Service Manager at Braconier, explains that the hotel had manual balancing valves installed. During the domestic hot water system assessment, they saw that some balancing valves were fully open and others were fully closed; therefore, the system was not balanced at all, and hot water flow relied on the path of least resistance.

Braconier gave the hotel 2 options: hire a balancer to rebalance the entire system or replace all manual balancing valves with CircuitSolver valves and eliminate balancing all together. Experiencing human error in the past with building engineers tampering with and adjusting manual balancing valves, the hotel knew they needed to try something new and decided to go with CircuitSolver.

Watts commented, “CircuitSolver was chosen for the simple fact that now no matter who the building engineer is, they have no access to adjust these valves at this point. So, it’s kind of an end-all-be-all solution for the issue they had.”

The Installation

35 CircuitSolver valves were installed on this project. One on each of the 30 risers and the rest in the mech room. Braconier broke the project into sections and installed 5 CircuitSolver valves a day. Blocking off a set of rooms each day, they shut down the hot water loop on that side of the building to cut out the old manual valves and replaced them with the new CircuitSolver balancing valves.

For seamless installation, they used the CircuitSolver with ProPress Ends to easily ProPress the CircuitSolver valves installed and get the risers back online and tested quickly.

“The ease of using CircuitSolver is, if you buy the option with [ball] valves on both ends, you can isolate what you’re working on…on a retrofit…and just get the [CircuitSolver] in really quick, really easy”, said Watts.



The Result

It took about one week to replace the Hiltons manual balancing valves with CircuitSolver. The job was completed in August 2020, and Braconier never heard from them again about a balancing issue.

Watts has been specifying and installing CircuitSolver thermostatic balancing valves for two years and is a huge supporter of the valves. “The results we’ve seen [from CircuitSolver] have been flawless! Zero callbacks which is good for repeat customers of ours. We’re not going back for warranty issues…it builds a better relationship for us and our clients using something that is so user-friendly”, Watts extolled.

When asked what you would say to someone who is considering using the CircuitSolver, but is not 100% sold yet, Chris Watts said, “I’d say go ahead and use them…I would tell any contractor, building engineer, and mechanical engineer if you are looking at [CircuitSolver] it is simple, it is easy to use, and it works right from the get-go.”

To learn about other successful CircuitSolver® installations, visit www.CircuitSolver.com.