



Installation of Geyser Testbenches at SABS Groenkloof

The Company

The South African Bureau of Standards (SABS) situated in Groenkloof, Pretoria has been operational since 1945 and has been at the forefront of benchmark and standardisation testing for products in South Africa. It is likely that majority of appliances and products seen in any South African household has gone through a rigorous testing process to be allowed onto the market for use by the general public. One such appliance is the common geyser.

The SABS has, up until now, been running the testing of these geysers manually using a collection of various instruments. This was a time-consuming exercise. This needed to change and an all-in-one plug and play solution was required to streamline the process.

The Challenges

Receiving a SABS stamp of approval on a geyser comes with rigorous testing which requires the strictest adherence to standards. This requirement was the biggest deliverable which needed to be achieved on this project. The scope of the project regarding the test procedures was non-negotiable and all the functions needed to be setup in exact accordance with the scope defined by testing standards for these geysers. The testbench also needed to provide flexibility to cater for a range of geyser types.

The Deliverables

PDA executed the detailed design, installation, and commissioning of the new geyser lab testbenches which needed to do the following:

- Cater for a range of geyser sizes and types
- Monitor and control incoming and outgoing flows of the geyser
- Monitor power usages on the geysers and adjust to desired setpoints
- Monitor temperatures of the environment and geysers during operation



- Allow personnel to interact with the geysers and test equipment in a user-friendly manner
- Log all data on the SABS database

The Results

PDA installed the required testbenches and has provided SABS with the ability to test up to 4 geysers simultaneously at any given time, increasing the company's throughput as well as streamlining the testing process by providing an all-in-one testing system.



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