

## Summary

The purpose of this visit was to do a general test and balance inspection on the Bartaco in Atlanta, Georgia as well as to access any standing issues. When speaking with Phil, he stated that the restaurant wanted to have bay doors open during store operation. However, when the doors are open, the restaurant becomes extremely uncomfortable.

Initial findings found that the building had extremely negative pressure on it, sucking in all the hot air when doors are open. The units could not maintain temperature in the restaurant when this was the case. The make up air unit was not running, and the outside air ductwork was not getting any airflow making the building extremely negative. When troubleshooting the makeup air fan had a supply air proving fault at the unit, showing an LC fault on the VFD of the unit. The outside air damper was fully open however there were no return air dampers to force the ductwork to become pressurized and get airflow. Initially it was found that AHU-1, AHU-2, and AHU-3 were initially low on total supply airflow. AHU-1 and AHU-2 were adjusted within design tolerance; however, AHU-3 was unable to be adjusted due to motor being seized. EF-1 was above design air flow; this was adjusted into design. EF-4 was below design air flow; this was adjusted into design. Generally, ductwork above the ceiling was also found to be leaking air because a lot of the ductwork is not properly sealed.

It is recommended that return dampers are installed in the mixed air compartment of all AHUs in order to balance outside air of the units. It is recommended to call a Captiveaire tech to resolve the issue of the supply air proving for the MUA to get it running. AHU-3 motor sheave should also be unseized and adjusted to max turns in, to reach design tolerance. It is also recommended that ductwork is properly sealed to fix any leaking air into the system.

Once these recommendations have been completed and the HVAC system fully balanced. The bay doors should be able to open with air doors turned on without effecting the temperature inside the building as drastically.