

# Case Study

## Tropicana Las Vegas



The third phase happened earlier this year (2015) when we replaced the three existing Aerco, domestic vertical water to water heat exchangers, with new double walled plate and frame exchangers. In the past, these Aerco exchangers operated with pneumatic controls and the engineer's struggled daily making repairs and adjustments to keep up with the changing demands in the building - not to mention the frequent outages that occurred because they were no longer reliable. The new exchangers are smaller and more efficient than the old models. They are also equipped with modern controls that are more accurate and can maintain the desired hot water temperature under changing load requirements. They are also easier to service and clean.

### Situation

The Tropicana was in a desperate situation with their two large fire tube water boilers that service the majority of the property. These boilers were operating below 70% efficiency. The boilers were only 10 years old and were experiencing multiple boiler tube failures and burner damage each year, costing thousands of dollars in repairs and lost revenue due to hot water shortages to the guest rooms.

### Solution

We formulated a three-phase approach that we executed over two years. In the first year we install two new High efficiency Camus vertical boilers to provide their domestic hot water needs. We did this installation in the spring when there was no longer a need for heating. Once we had these boilers running we turned off their two large boilers for good. The resulting savings was a drop of over 60% on their gas bill. Southwest Gas even sent a representative to the property to see what was wrong. The Tropicana staff told them nothing was wrong they were just modernizing their system. Phase two happened the same year, in the fall we installed two more Camus high efficiency boilers to provide the heating needs for the property. Their hot water production needs were fulfilled and we had one more phase to go.



### Results

The net result for the property was a substantial reduction in their gas utility bill and a system that runs automatic with no outages of service for the hotel guests.

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