

# DUNHAM-BUSH AMERICAS

## Anguilla, Leeward Islands-- Installing a new Energy Conscious System

The CuisinArt Spa & Resort is perfectly nestled along the shoreline on the prestigious island of Anguilla. Anguilla 16 miles long by 3.1 miles wide at its widest point is located just northeast of St. Martin. The resort is comfortably sized; offering 93 spacious rooms and suites all air- conditioned, and offers breathtaking views of the sea.



### **CHALLENGE**

The CuisinArt, always keeping with the times, and newest technology, had their old inefficient chilled water system retrofitted with a new energy conscious system. The new systems purpose was to supply air conditioning, hot water, and reduced energy consumption. As to not interfere with the daily operations the retrofit was scheduled during the summer hotel shutdown between August 31<sup>st</sup>-October 15<sup>th</sup>. The design of the complete new system was engineered by Cape Design Engineering Co. a consulting engineering firm based out of Cape Canaveral, Florida with the assistance of Dunham-Bush Americas. Island Mechanical, a large mechanical contracting firm based out of Jacksonville, Florida provided the installation for the new system.

### **SOLUTION**

Dunham-Bush Americas worked closely with Cape Design Engineering, Co, and Island Mechanical to furnish a design, which included (2) HXWCi440-6SR-HR chillers. Both these chillers are equipped with:

- Dual screw compressors
- Factory installed desuperheaters for free hot water reclaim
- Full load KW/TR of 0.59KW/TR
- Remote monitoring system



### **RESULTS**

The CuisinArt Spa & Resort has benefited to a great extent with the retrofit. The new systems efficient chillers have reduced the hotels energy cost by 30%. An additional huge savings, the factory-installed desuperheaters allow for free hot water throughout the peak operating periods of the hotel. Furthermore the hotel now operates with better indoor air quality all a result of more efficient chillers.

### **THE SPECIFICS**

- Reduced savings
- Free hot water
- Service contract for Dunham-Bush Americas



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