

# DUNHAM-BUSH AMERICAS

Sunny Isles, Florida-- Newport Beachside Hotel & Resort gets an air conditioning makeover during hotel operation.

The Newport Beachside Hotel & Resort is a conveniently situated beachfront property South of Fort Lauderdale and North of Miami Beach. The Newport Beachside Hotel & Resort offers more than 300 air-conditioned rooms from 1-2 bedrooms including suites.

## **CHALLENGE**

The Newport Beachside Hotel & Resort operates 24/7, 365 days of the year with guests visiting from all over the world. It is essential that the air conditioning provide complete redundancy, functionality, and comfort for all hotel vacationing guests. The hotel required replacement of 2 older inefficient chillers. Other's options for replacing the old equipment were proving costly as well as timely. The major trial and obstacle was to retrofit their existing chiller plant while leaving the hotel fully operational and efficient. In conjunction with the required energy savings, it was also mandatory for the chillers to run exceptionally quiet. One major requirement of the new chillers was to reduce the energy costs expended overall, in addition the chillers would supply free hot water via the factory installed desuperheater to supplement the existing hot water system.

## **SOLUTION**

Cool Breeze Air Conditioning, a Dunham-Bush Americas Authorized Service Company located in Miami, Florida, was requested to install the chillers during the winter months. The new chillers boast 0.587 KW/TR @ full load and an IPLV of 0.464 @ AHRI conditions proving energy efficiency. These innovative chillers are designed with dual rotary screw compressors for complete back up and redundancy. They are outfitted with factory installed shell and tube cleanable desuperheater which provides 360MBH of free hot water temperatures reaching up to 117°F. The standard Dunham-Bush chiller effortlessly met the hotels obligation of sound with a rating of 81dbA @ 3 feet.



## **RESULTS**

The effect of the retrofit chiller installation afforded Newport Beachside Hotel & Resort total reliability to satisfy their hotel guests. A smooth transition of the retrofit guaranteed that the hotel remained cool and comfortable. The new efficient chillers successfully offer trouble free operation along with free hot water and a reduction in the hotels monthly electric bills.



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## **SPECIFICS**

- Retrofit to replace 2 old chillers with 2 new
- Free hot water
- 0.587 KW/TR @ full load & IPLV of 0.464 @ AHRI conditions proving energy efficiency
- Dual rotary screw compressors for complete back up and redundancy



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