

DUNHAM-BUSH AMERICAS

Miami, Florida—Bank of America in Miami, Florida welcomes a custom retrofit.

CHALLENGE

Bank of America required a custom solution of their old system that was easily adaptable to the existing building. The outdated system was of the direct expansion type and was replaced with a new chilled water system. Additionally, a new variable air volume system including hot water reheat for humidity control which is essential in South Florida was supplied by a factory installed desuperheater to the hot water coil with free hot water.

SOLUTION

Dunham-Bush known for customized solutions provided a tailor made air cooled packaged 40TR chiller, model #ACDS040 with a factory installed chilled water pump. The package consisted of integrated dual pumps, balancing valves, expansions tank, and an air separator. Dunham-Bush also incorporated a factory installed desuperheater built with a pumping package intended for the hot water reheat system. Designed for variable air volume systems, Dunham-Bush offered the new CS3 vertical central station air handler equipped with a factory installed variable frequency drive furnished for the fan motor. The hot water supplied by the desuperheater is utilized for hot water reheat and humidity control within the new VAV air side system. The entire system was integrated by Mechanical Systems and Controls with a Lon works control system.

RESULTS

One of the major benefits of the custom package chiller is it allowed for a savings on installation cost as well as a moderate installation time reduction. In effect, the retrofitted chiller is a more efficient, reliable, and dependable operating system. Incorporating the desuperheater allowed for free hot water reheat an additional savings for the customer by not having to use a boiler or electric heat.

SPECIFICS

- Chiller Model # ACDS040 with factory installed pumping packages
- Factory installed desuperheater hot water system
- CS3 vertical central station air handler



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