The Belimo Energy Valve creates $57,890 annual utility savings at University of Miami Rosenstiel building

Improving system performance and transparency while reducing operating and maintenance costs

TARGET: IMPROVE SYSTEM PERFORMANCE; REDUCE OPERATING COSTS AND INCREASE PLANT CAPACITY WITH A BELIMO ENERGY VALVE.

- Increasing and maintaining a high delta T across coil to maximize heat transfer.
- Increase plant capacity by optimizing pump and chiller usage.
- Monitoring coil system performance to help quantify changes (Improvements) in the system

The university was paying very high operating costs from chiller and pumps working overtime. It was determined by Kerney and Associated and confirmed by data from the Belimo Energy Valve that this was a low Delta T problem. With the installation of the Energy valve with its patented Delta T manager the Delta T increased from 5.5˚F to 10.5˚F. This increase in Delta T allowed for reductions in chiller and pump operating costs of $57,890 annually.

FINANCIAL: Project cost is at $195,500 includes product and installation. A 10 year analysis yields a net present value of $240,089 and a savings-to-investment ratio over 3.

Payback	2.94 years	Net Present Value[1]	$240,089
Return on Investment	34.1%	Savings-to-Investment Ratio	3.4
Internal Rate of Return	34.7%	Modified Internal Rate of Return[2]	19.8%

NPV assumes a 10 year analysis term, 3% inflation, and 10% discount rate
MIRR assumes 10% finance rate and 10% reinvestment rate

STATUS: Installation Completed