

Boiler Controls

Date reviewed: 03/02/2015

Description of Technology

Energy Saving Opportunity

This boiler controls are designed to make commercial and residential HVAC systems operate more efficiently resulting in lower operating costs and reduced fuel usage. Their commercial control applications include hydronic and steam boiler systems larger than 400,000 BTU input as well as forced warm air systems up to 300,000 BTU input.

Sector(s):	<input checked="" type="checkbox"/>	Residential
	<input checked="" type="checkbox"/>	Commercial & Industrial
Applicability Criteria:	Any building with large boiler	
Efficiency Improvement:	Reduce system run time and fuel savings	
Energy (%) Savings Potential:	Highly variable	
Demand (%) Reduction Potential:	Highly variable	

Strengths

Weakness

- It can be used in many different sectors, such as offices, hotels, schools, and high-rise apartments.
- Technology is applicable for heating and cooling applications
- Measurement and Verification functions are implemented in the technology

- It's a simple concept, but may need education and training when implementing the system
- This technology has higher potential for fuel savings over energy or demand savings

**Third Party Analysis/
Previous MTAC Reviews**

**Suppliers Known
to MTAC**

MTAC Status

- NYSERDA, Brookhaven National Lab, and Atlantic Testing Labs all have done pilot projects and created several M&V reports
- About 40 test report generated in actual test sites in various states and countries. Can be found on vendor's website

Intellidyne
MicroTherm

Acknowledged to have energy savings potential and recommended to individual PA for their own EE program consideration

Market Development Issues

Cost:	System dependent
Market Risk and Barriers:	Training needed
Time to Market:	Currently on market
Simple Pay-back: (Years)	~2 years based on the NYSERDA report

