



R.L. DEPPMANN
Serving the industry since 1927

20929 Bridge Street, Southfield, MI 48033
4121 Brockton Drive SE, Grand Rapids, MI 49512
6200 Baron Drive, Bridgeport, MI 48722
6910 Treeline Drive, Suite A, Brecksville, OH 44141

Phone: (800) 589-6120 - Fax: (248) 354-3710
www.deppmann.com

September 17th 2012

By Norm Hall

Update and Upgrade Your Hot Water Boiler Controls to Save \$\$

What is the RBT-3000?

The RBT-3000 is a combination safety and energy saving device for installation on hot water heating boilers.

- The low water cut-off turns off the burner when an unsafe water loss occurs in the system
- The energy saving feature reduces fuel consumption, wear on boiler parts and burner emissions. The control actively manages the burner cycling along with the operating control to match boiler output to the required load.



How Does It Work?

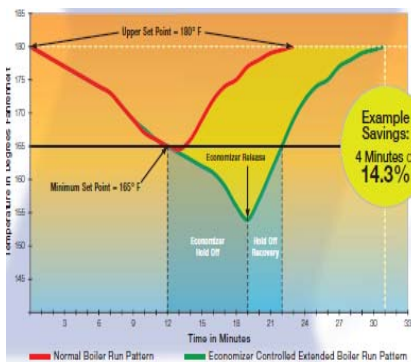
Typical Operation:

- When there is a call for heat, the circulating pump turns on.
 - If the temperature of the water is below the low setpoint, the burner will turn on.
 - When the water temperature reaches the high setpoint, the burner will turn off.
 - This cycle will continue until the thermostat is satisfied.

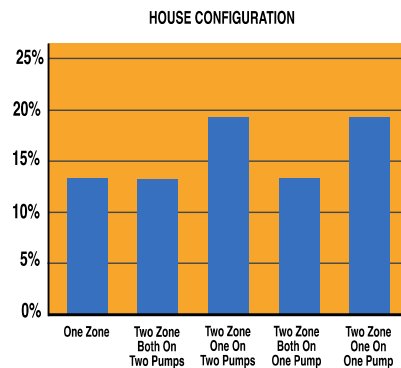
With the RBT-3000:

- The control works by monitoring and analyzing the load of the heating system, in real time, and then modifies the burner run time.
- By analyzing water temperature changes, the burner run time is adjusted to match the systems 'heat load'.

Compare the difference



How much of a reduction of fuel usage is expected



This example shows a 7 minute delay with a 3 minute hold off recovery.

The 4 minute difference in time equals a 14% reduction of burner runtime.

In general, there will be a 10% to 15% reduction of fuel usage in a house with a boiler that has a single circulating pump.

Easy to Install

- The LWCO remote sensor is installed in a tapping designated by the boiler manufacturer or the supply (outflow) pipe of the boiler.
- A temperature sensor is attached to the supply (outflow) pipe of the boiler.
- The control unit is attached to the boiler and wired as shown in the Installation Instructions.
- No existing controls need to be removed or replaced.

Disclaimer: R. L. Deppmann and it's affiliates can not be held liable for issues caused by use of the information on this page. While the information comes from many years of experience and can be a valuable tool, it may not take into account special circumstances in your system and we therefore can not take responsibility for actions that result from this information. Please feel free to contact us if you do have any questions.