

# Ryan's Monthly

Ryan Company, Inc. Newsletter - November 2013

BOILERS \* WATER HEATERS \* BURNERS \* CHIMNEYS \* ACCESSORIES

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November, 2013

## Quick Links

- [Lochinvar website](#)
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## Fulton Pulse Boiler Reduces Energy Use by 37%



The Wayzata Sunset Elementary School added a Fulton PHW1400 high efficiency-condensing boiler to its fleet of old heating boilers. The design called for the Fulton Boiler to be the primary heating boiler during the majority of the heating season. During extremely cold days, the old boilers would be used for supplemental heat. Through March 2002, the school district reported a 37% decrease in fuel use per degree-day.

	1999			2000			2001			2002		
	Therms	DD	Usage	Therms	DD	Usage	Therms	DD	Usage	Therms	DD	Usage
January				7353			4645	1380	3.37	4126	1243	3.31
February				5662	1054	5.37	5523	1463	3.78	4986	1020	4.88
March				4174	733	5.69	4469	1144	3.91	4321	1234	3.50
April				2580	535	4.82						
September					1	3	0.33					
October	1672	476	3.51	344	364	0.95						
November	3485	701	4.97	3837	1024	3.75	784	652	1.20			
December	6303	1214	5.19	5935	1771	3.35	1346	1152	1.17			
Annual	11460	2391	4.79				16767	5791	2.90	13433	3497	3.84

Heating seasons place considerably different loads on systems. That is why we use the total therms per month divided by the actual heating degree days (DD) per month. This will give us a number that we can compare for tracking the gas consumption (Usage), regardless of the cost of gas or the heating load.

## Featured Job: Sioux Falls Air Traffic Control Tower



## Upcoming Dates to Remember

- November 11th** - Veterans Day
- November 12th** - MASMS Metro Chapter Meeting
- November 21st** - MASMS Northern Chapter Meeting
- November 28th** - Thanksgiving Day
- November 29th** - Black Friday

## Trivia Challenge

What is the newest product from Patterson Pumps called?

First 5 correct answers receive a prize. Send your responses to Matthew Kiemen.

[matt@ryancompanyinc.com](mailto:matt@ryancompanyinc.com)

**Contact Matt to set-up your lunch and learns now. Topic: Controlling the Boiler Room. Featuring the ModSync.**

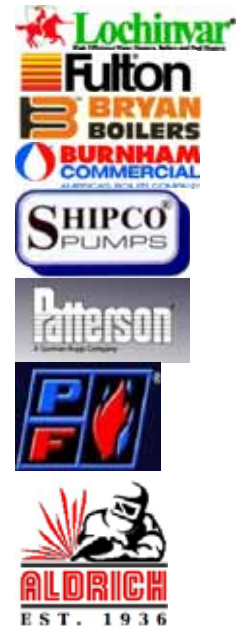
[matt@ryancompanyinc.com](mailto:matt@ryancompanyinc.com)

## Fun Fact

The first owner of the Marlboro Company died of lung cancer. **Was Karma in play with that? Maybe?**

## More information

Visit our website for more information on any of our products. [Ryan Company website](#)



Mechanical Engineer: Climate Systems, Inc.

Mechanical Contractor: Boykin Contracting

Equipment:

-(2) Fulton Pulse Combustion Hydronic Condensing Boilers -Model PHW500

Modulating.

-Natural Gas Burners.

-Each Boiler is 500 MBH input.

-PrePiped Common Return & Supply Headers

-Individual Wye Strainers & Isolation Valves

-PreWired with Single Point Connectionn.

-Fulton ModSync Sequencing Controller.

Each Pulse boiler has a 5:1 turndown which equates to a 10% minimum firing rate (This 2

boiler package will provide an overall 10:1 turndown). The Fulton ModSync incorporates a true PID controller that will fire each boiler at low fire (10%) until all boilers are on and then modulate all boilers as required. This will allow the boilers to condense at a higher rate and achieve the greatest efficiency possible. We are anticipating a 20-30% annual savings as compared to standard efficiency boilers.



### Featured Product: Lochinvar Crest Boiler

The Crest is Lochinvar's newest High Efficiency Boiler. It features a 25:1 turndown modulating burner and achieves efficiencies up to 99%. As this is a fire tube style boiler, it can be installed in full flow applications with flows as low as 20GPM. Each model comes with the SMART TOUCH touch screen operating control, which includes a service indicator, contractor-accessible password protection, outdoor air reset and modbus communication. Best of all, the SMART TOUCH has a built-in lead/lag control sequencer capable of controlling up to 8 boilers. Models available are 1500, 2000, 2500, 3000 and 3500 MBH Input.

### Coming Next Month

- New Featured Job of the Month
- New Trivia question of the month with your chance to win a prize
- More information regarding Patterson Pumps and how they will work for your system
- Information on the Aldrich Company



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