



Ryan's Monthly

Ryan Company, Inc. Newsletter - April 2015

BOILERS * WATER HEATERS * BURNERS * CHIMNEYS * ACCESSORIES

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April, 2015



Benefits to High Mass and High Volume Boiler Design



Benefits of High Volume:

- Decreased cycling: A major factor in the life expectancy of any boiler is the amount of cycles the heat exchanger experiences. The volume inside the heat exchanger of the boiler(s) is part of the hydronic system volume. As overall system volume increases, equipment cycling decreases.

- Tolerance of varying flow and/or no flow conditions: The heat exchangers of the Pulse and Vantage boilers will experience no harm from varying flow or no flow conditions, this includes power outages, cold start-ups, or spring/fall seasons when heat loads are considerably less than the peak design loads.

- No return water temperature requirements: Regardless of cold system start-ups or aggressive condensing applications, there are no limitations to the return water temperature into the Pulse or Vantage heat exchangers.

- Tolerance of water chemistry variances: Although there are water chemistry recommendations for the operation of the boilers, the larger the volume of water inside the pressure vessel of the boiler, the more flexibility there is if chemical treatments get forgotten or changed randomly.

- Decreased risk of scaling and/or erosion: Regarding scaling, the same reasons as discussed under water chemistry above will apply. Scaling often occurs in water tube boilers when flow

Quick Links

- [Lochinvar website](#)
- [Fulton website](#)
- [Ryan Website](#)
- [Burnham website](#)
- [Shipco website](#)
- [Patterson website](#)
- [Schebler website](#)
- [Power Flame website](#)

Upcoming Dates to Remember

April 5th - Easter

April 14th - MN ASHRAE Spring Education Seminar

Trivia Question

What type of boilers were in the featured job of the month and what fuel source did they use?

First 5 correct answers will receive a prize? Please include address with your emailed answer.

matt@ryancompanyinc.com

Contact Matt to set-up your lunch and learns now.

matt@ryancompanyinc.com

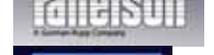
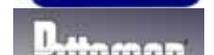


Fun Fact

Americans buy more than 700 million marshmallow peeps during the Easter holiday, which makes Peeps the most popular non-chocolate Easter candy. **That is a lot of PEEPS!**

More information

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





rates fall below a minimum requirement (minimum flow in low mass boilers is based on an operating point with the least risk of scaling, corrosion, or hot spots due to pitting or localized boiling).

Benefits of High Mass:

- Conservative designs: Boilers with a large mass are less likely to experience thermal shock or other premature failures. Fulton's condensing boilers include a thermal shock warranty of up to 170 degree F temperature differential across the unit!
- Quality materials and welding procedures: Construction parameters typically include material thicknesses 30% greater than ASME minimum requirements. for Fulton Boilers.

Ryan Company represents Fulton Boilers which uses these ideas to design there boiler with a High Mass and High Volume design. These features really show themselves in the Endura, Vantage and Pulse models.



Lochinvar's Newest Crest Input Sizes:

Crest now available in input sizes of:

- 750,000 BTU/HR
- 1 Million BTU/HR
- 1.25 Millions BTU/HR

RIDE THE LOCHINVAR WAVE™ TO 96.2% EFFICIENCY With the exclusive Wave fire-tube design, advancements in Lochinvar combustion technology and the SMART TOUCH control, CREST changed how the industry thinks about fire-tube boilers. Now, three new CREST boilers, with 750,000, 1.0 million and 1.25 million Btu/hr inputs, deliver 96.2% thermal efficiency.

The system is designed to ensure smooth, quiet modulating combustion from as low as 5% of maximum firing rate up to 100% as heating load increases. And in multi-boiler applications, modulation is an essential element in cascade sequencing, which helps ensure maximum efficiency and long-term reliability



Coming Next Month

- A new way to design your Hydronic systems to help with efficiencies on your condensing boilers.
- A new trivia question to win a prize

Contact Matthew Kiemen with questions or to sign up for anything Ryan related.
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