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Noritz America, John Siegenthaler Hold Highly Successful Seminar On Revolutionary Noritz NH Boiler Series in NY Showroom

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Nation's Leading Plumbing Engineer Educates HVAC Contractors to Benefits of Noritz's High-Efficiency Wall-Hung Boiler & Dedication to Industry Professionals

Hawthorne, NY (December 1, 2009) – John Siegenthaler, one of the nation's most respected and accomplished plumbing engineers, addressed an overflow audience of HVAC contractors from all across the Northeast region on the benefits of Noritz America NH Boiler Series, according to Yoshi Asano, Noritz America Senior Marketing Manager. The event, which was held at Noritz's New York branch showroom on November 5, introduced Noritz's ASME certified tankless hydronic boilers for both residential and commercial use.

The NH hydronic boiler series (**NH-1501-DV** and **NH-2001-DV**) share the same features as Noritz's commercial tankless hot water heaters, which are ASME certified, environmentally friendly and engineered to provide advanced modulation control. Dramatically smaller in size, Noritz tankless hydronic boilers weigh only 66 pounds versus a conventional boiler's weight of over 300 pounds. They also offer nine (9) temperature settings for hydronic heating.

By improving tankless technology and modifying it to meet the demands of North America's hydronic heating market, Noritz has changed the face of existing systems by developing:

- Considerably thicker, commercial-grade copper heat exchangers, coated to resist corrosion.
- Dual-flame burners that allow for stable burn under adverse conditions.
- Fully modulating burner that gives very good turn down ratios and excellent tracking of system demand. (140 deg. F ~ 180 deg. F)
- Standard Integrated Priority controls for DHW and Hydronic heating systems from a single controller in the boiler's front panel
- Direct Vent design for installation in most locations in the house
- Dramatically reduced pressure loss through the heat exchanger
- High temperature capability (180 deg.F)
- Minimal moving parts; only the fan and flow switch are moving parts. (low maintenance)
- Durable, fully solid state controls

"On behalf of everyone at Noritz America, we would like to thank Mr. Siegenthaler for making our seminar a tremendous success as well as defining the advantages of Noritz's new NH Boiler Series," said Asano. From the feedback we received, the HVAC contractors in attendance were excited to gain knowledge on our boiler system and fully plan to utilize it in future residential and commercial applications. It was clearly a win-win for everyone involved."

CONDENSING VS. NON-CONDENSING

Combustion gases all contain a certain amount of water. When gas is burned, the water is converted to water vapor. As the gases cool in the flue, the water condenses and runs back down the flue pipe to the heat exchanger. This "condensate" contains Hydrochloric acid that is extremely corrosive to most ferrous metals.

There are two solutions to this problem. One is to burn the gas at a hot enough temperature to evacuate the gas before condensation occurs. This is done in a "non-condensing" type of boiler. The other option is to deal with the condensate by building the flue pipes and heat exchanger out of materials that can handle the caustic nature of the condensate and then treating the condensate so it can be drained into the sewer system without damaging the infrastructure. This method is costly and troublesome to maintain but it produces greater efficiency numbers. This is what condensing boilers do. However, when operating at a high temperature and with a small Delta "T" (temperature differential), even "condensing" boilers do not condense. In these cases, it is a waste of money to pay a premium for high-efficiency "condensing" boilers that do not condense.

By tracking the load closely and operating at just below the dew point (point at which condensate is produced), Noritz boilers give the ultimate in efficiency without the added product, installation, and maintenance costs of a condensing boiler system. In short, it's the best of both worlds --low initial cost and long-term operating (in-service) efficiency-- all in a compact, 66-pound, wall-hung unit.

FULLY MODULATING BURNER

Most boilers in the <200,000 btu category come with an on/off firing burner. This means that the total output of the boiler is produced until the demand is satisfied, usually leaving a residual amount of unused heat in the boiler and system. Then the boiler waits until the demand rises to the set point and the burner fires again. This creates a wasteful pattern of too hot/too cool conditions within the boiler and the system as shown in the graph below. Energy waste and system imbalance are natural results of this type of system. Optional multi-stage burners are sometimes available and they will reduce the severity of this problem. However, they will not eliminate it.

The Noritz NH Boiler is equipped with a fully modulating burner that tracks the needs of the system precisely and provides only the amount of energy required to maintain system set point. This reduces the amount of times the boiler has to turn on and off, dramatically reducing wear and tear on moving parts in the system such as thermostatic controls, pumps and automatic valves. Zone controls and valves also have to work less. Overall, this highly efficient methodology can equate to as much as 50% less fuel consumed to satisfy the same demand.

For more information on Noritz and the Noritz NH Boiler Series, please call call (877) 986-6748 or visit our web site at **www.Noritz.com**.

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