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# Lochinvar® High Efficiency Water Heaters, Boilers and Pool Heaters

# Currents

a newsletter for plumbing and hydronic heating professionals

Spring 2010



## Here We GROW!

Just days after announcing multiple new product introductions and a new Solar Thermal Heating initiative at the AHR Expo in Orlando, FL, Lochinvar Corporation is revealing plans to expand its current finished product warehouse facility in Lebanon, TN. As Lochinvar's residential boiler business continues to grow and the company extends its offering to include new commercial solar thermal products and additional stainless steel indirect water heaters, many of which will be manufactured at the Lebanon headquarters, this expansion is a strategic step towards ensuring that demand is met and growth is maximized.

Currents brought to you by:



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## LOCHINVAR® ANNOUNCES MAJOR PRODUCT INNOVATIONS AND INITIATIVES

At the 2010 AHR Expo in Orlando, Lochinvar hybrid systems that incorporate solar generated buzz throughout the show with the announcement of three very significant new innovations and initiatives. thermal panels along with a secondary boiler heating coil or electric back-up.



Despite the recent and ongoing economic conditions, each of these announcements exemplified Lochinvar's continued investment in research and development.

**Squire**  
Stainless Steel Indirect Water Heater

One of the key product innovations Lochinvar shared with show attendees was that the highly successful Squire® Indirect Water Heater line has been expanded upon and enhanced. A total of 12 stainless steel Squire models will soon be available with capacities between 30 and 119 gallons. Among the new models will be six solar Squire units, each of which will feature

As a result of Lochinvar's investment in tooling, machinery, robotics and passivation equipment, all Squire units will be manufactured at company headquarters in Lebanon, TN beginning in February 2010. All Squire models will also carry a limited lifetime warranty.



In addition, Lochinvar announced their Solar Thermal Heating initiative, which is the result of a new partnership with TiSUN® GmbH of Tyrol, Austria. The partnership between Lochinvar and

## Commercial Sizing and Application School June 9-10, 2010



Seats are still available...  
Lochinvar will be offering its  
Commercial Sizing and Application  
School June 9-10.

The class will focus on the full line  
of Lochinvar Water heaters, with a  
special emphasis on gas-fired  
Commercial Water Heaters.  
Topics covered will consist of:

- Fundamentals of Water Heating
- Commercial Water Heaters  
Manufactured by Lochinvar
- Construction, Operation, Sales  
Features and Benefits of Each  
Product
- Special Emphasis on Finned  
Copper Tube Water Heaters
- Energy Efficiency Comparisons  
and Cost of Operation
- Comparisons of Installed Cost,  
Codes, Standards and Approvals
- Product Sizing and Application  
Exercises
- Tour of Lochinvar Manufacturing  
and Engineering Facilities

Register/Check Availability at  
[www.lochinvar.com](http://www.lochinvar.com) 



## New Partnership and Product Introductions Revealed at 2010 AHR

*TiSUN has resulted in a winning team with smart strategies that provide the exact product, training and support that mechanical and plumbing design engineers and contractors need to provide renewable energy solutions for their clients.*



*As a global leader and specialist in solar heating technology, TiSUN brings years of extensive experience, along with a complete line of innovative products, to the table. The Lochinvar/TiSUN product offering will include solar thermal panels specifically engineered and designed for commercial use, solar thermal storage tanks utilizing a unique design that allows*

*the tank to enhance the efficiency of the system, and the associated pumping stations used to move the solar energy between these devices.*

## CREST<sup>™</sup> CONDENSING BOILER

*The final – and undoubtedly the most buzz-worthy – announcement Lochinvar made at the AHR Expo was that the company plans to unveil the latest addition to its commercial, stainless steel, condensing family of boilers in 2010. The result of more than four years of research and development, the CREST<sup>™</sup> Condensing Boiler will raise the bar once again. This innovative new line has been developed to offer engineers more system design flexibility, sizes and distinctive performance characteristics to meet today's building standards for new construction and energy retrofit applications. With several patents pending on the technology incorporated into this new product, it indisputably redefines its class.*

*Once available, the CREST Condensing Boiler will be offered in five models with capacities of 1.5, 2.0, 2.5, 3.0 and 3.5 million Btu/hr inputs. Each of these models will feature an advanced burner and combustion system designed to provide exceptional turndown capabilities and improve overall seasonal efficiencies. In addition, CREST will include the ever-popular SMART TOUCH<sup>™</sup> operating control platform enhanced with an eight-inch touchscreen display; this advanced control will offer ease of set-up and use by installing contractors and will include Modbus protocol for easy integration into Building Management Systems.*

*Featuring a sleek, smart design, CREST will be equipped with distinctive features and control parameters to provide facility managers with functionality, ease of operation and data retrieval. Venting flexibility will allow both vertical and horizontal venting options with increased vent lengths and configurations.*

*Regarding these three ground-breaking announcements, Stirling Boston, director of marketing for Lochinvar, stated, "This year's AHR Expo was an exciting show*



## New Partnership and Product Introductions Revealed at 2010 AHR Expo -Continued-

for us. Not only are we thrilled to expand upon the SQUIRE Indirect Water Heater line, but all of us take great pride in the fact that these units will be manufactured right here at our headquarters. In addition, the partnership with TISUN has provided us with an opportunity to share our industry experience and expertise with another outstanding company, collaborating with them to ultimately offer our customers the smart solar solutions they need and deserve. Finally, the unveiling of the CREST Condensing Boiler was a tremendous accomplishment for the Lochinvar team; today's engineering practices rely on the use of the best available technology to optimize new or existing hydronic heating systems, and we wholeheartedly believe that design engineers, mechanical contractors and building owners will find just that in the new CREST."

A video featuring the live announcements of these new innovations and initiatives by Lochinvar executives at the AHR Expo is available at [www.lochinvar.com](http://www.lochinvar.com).



### Energy-Efficient Water Heater Line Expands to Include Six Made-in-the-USA Solar Models from 65 to 119 Gallons

The new Squire solar models provide supplemental heat from a solar panel to naturally provide hot water for showers, laundry, dishwashing and all other household water requirements. These models are offered in two solar configurations equipped with either a boiler back-up coil or an electric back-up element. Like all of the water heaters in the Squire line, the solar models feature high output 304L stainless steel heat exchanger coils, offering maximum heat transfer efficiency with more surface area to deliver large amounts of hot water.



Not only is the expansion of the Squire line an industry breakthrough, offering innovative new solar models and the highest efficiency operation available, but all of us at Lochinvar take great pride in the fact that this technologically advanced line is manufactured right here at home.

**GOT A QUESTION? Email [lhix@lochinvar.com](mailto:lhix@lochinvar.com) or mail us a postcard to: Leslie Hix  
300 Maddox Simpson Pkwy  
Lebanon, TN 37090**

## Design with D.G.



A frequently asked question of Lochinvar is "Do you have Modbus"? The answer is, yes, we do!



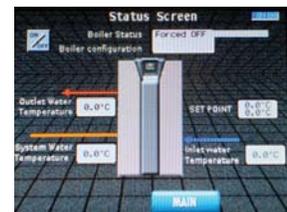
The SYNC boiler now features Modbus control protocol. But what is Modbus?



Modbus is a control "language": communication between two entities requiring a shared language and shared knowledge.

English is a language that allows communication between Person 1 and Person 2. Modbus is a language that allows communication between a Building Automation System (BAS) and the SYNC boiler.

Modbus uses a number string to allow the SYNC to be controlled on 9 different datapoints, such as Setpoint and Boiler Enable/Disable. Modbus also reports



the status of 49 datapoints, such as status of Safety Switches and System Temperatures.

Modbus is available on any SYNC boiler as an option at no charge. For other control programs such as BACnet or LonWorks, a simple gateway device will allow communication with the SYNC's Modbus protocol.

David George is a Product Manager at Lochinvar and welcomes your questions and feedback. David can be reached via e-mail at [dgeorge@lochinvar.com](mailto:dgeorge@lochinvar.com)

discover more at:  
**Lochinvar.com**

# Squire®

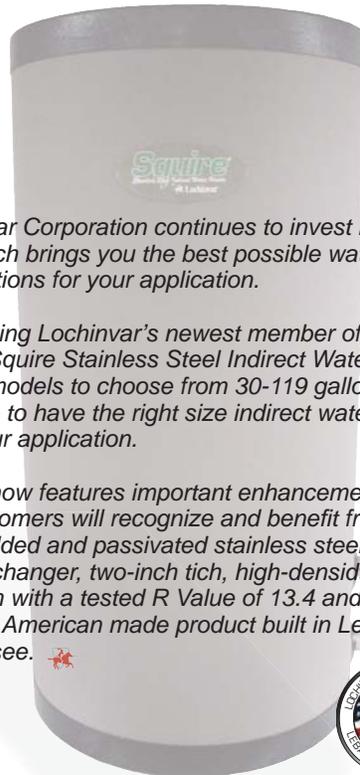
*Stainless Steel Indirect Water Heater*



A CNC laser precisely cuts the Squire's tank shell out of 14 gauge 316L stainless steel to a tolerance of .01 inch.



Six axis robotic welder uses computer guidance to accurately weld all fittings and coil to the tank.



Lochinvar Corporation continues to invest in technology which brings you the best possible water heating solutions for your application.

Introducing Lochinvar's newest member of the family, the Squire Stainless Steel Indirect Water Heater. With 6 models to choose from 30-119 gallons, we are sure to have the right size indirect water heater to fit your application.

Squire now features important enhancements that our customers will recognize and benefit from such as a welded and passivated stainless steel tank and heat exchanger, two-inch thick, high-density insulating foam with a tested R Value of 13.4 and best of all an American made product built in Lebanon, Tennessee.



Lochinvar®  
High Efficiency Water Heaters, Boilers and Pool Heaters  
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Each tank is subjected to a thorough passivation process to ensure corrosion resistance.