



Ryan Company, Inc. Newsletter - October 2010

BOILERS • WATER HEATERS • BURNERS • CHIMNEYS • ACCESSORIES

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### **Interesting Facts**



- Great Wall of China -Construction began in the 7th Century BC and continued until the 16th Century AD. The wall stretches for more than 4000 miles and is among the worlds greatest wonders.
- Boston's Big Dig It took 30 years and more than \$14 Billion to complete this underground transportation network - making it the most expensive highway project in US history.
- In two years 1959-1960 - the US built over 14000 nuclear warheads, or about 28 warheads every workday. Taken from Modern Marvels

#### Nov Dates to Remember

Nov 11 - Veterans Day Nov 25 - Thanksgiving Day



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## **Renewable Energy Products**

# Biodiesel Fired Condensing Boiler **Eulton**



Fulton recently completed laboratory testing of their Vantage boiler firing on biodiesel (B100) fuel. An article was published in the June 2010 edition of Boiler Systems Engineering (BSE) which is a special section in the January and June issues HPAC Engineering. Below is an excerpt.

Biodiesel is a clean-burning fuel derived from renewable resources. It is made through a chemical process called transesterification, during which glycerin is separated from animal fat or vegetable oil. Biodiesel can be used to replace or supplement petroleum-based heating oil and diesel fuel. It can be blended with petroleum fuels and stored without significant changes to traditional industry practices, except for certain minimum tank temperatures.

Unlike No. 2 Fuel Oil, Biodiesel does not contain sulfur. Therefore, it allows the boiler to operate in a condensing mode without the corrosion associated with Fuel Oil.

### Click Here for the full Biodiesel article

### **Fulton Vantage Features**

- Up to 99% Efficiency
- 5:1 Modulating Turndown
- No Minimum Return Water Temp
- No Minimum Flow Rate
- No Maximum Flow Rate
- 2, 3, 4 & 6 Million Btu/Hr
- Linkageless Controls
- Multiple Fuel Options
  - Nat Gas
  - LP
  - Nat & LP
  - #2 Fuel Oil
  - (Nat or LP) & #2 Oil

Click Here for more info



# Gas Fired Absorption Heat Pumps

The Fulton Invictus is a gas fired absorption heat pump designed for commercial hydronic and cooling applications. The Invictus captures free energy from a natural source (outdoor air, geothermal, body of water) by the use of the ammonia absorption cycle. Fulton can also provide a packaged system with heatpumps, boilers and a controller all on one skid.

Invictus Features

- » Thermal Efficiencies up to 149%
- » Hydronic Heating and Cooling Applications
- » Air Source, Water Source & Geothermal
- » Natural Refrigerant

Click Here for more info on the Invictus



Fulton Invictus

## **Commercial Solar Thermal Systems**

🔀 Lochinvar TiSUN®

Lochinvar has teamed up with TiSUN GmbH to provide innovative solar thermal products to North America. They offer all the necessary components including: Flat Plate Collectors, Tanks, Pumping Stations with Controls, Expansion Tanks, Valves, Corrugated Stainless Steel Pipe and various Roof Mounts. Furthermore, Lochinvar has a solar design team ready to help size and model your complete system.

Click Here for more info on Lochinvar Solar Products





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