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Interesting Facts



- The word "bomb" derives from the Latin *bombus*, meaning "a booming sound".
- The Massive Ordnance Air Blast bomb (MOAB) is 30ft long and about 21,000 pounds. It is referred to as the Mother Of All Bombs.
- One pound of uranium, about the size of a golf ball, can produce as much explosive energy as 8000 tons of TNT.

Taken from Modern Marvels

August Dates to Remember

Aug 6 - ASHRAE Rochester Golf Outing

Aug 27 - MN State Fair Starts



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NEWS



20 YEARS OF FULTON PULSE BOILERS

Fulton, a global manufacturer of steam, hydronic and thermal fluid heat transfer products, is celebrating 20 years of leadership in pulse combustion technology. In addition, Fulton is celebrating its 60th anniversary.

Pulse combustion is widely recognized as one of the most efficient ways to burn fuel. As a leader in this technology, Fulton has been using pulse combustion in hydronic and steam boiler designs for more than 20 years. Today, over 10,000 Fulton Pulse Boilers are operating in the field. Fulton remains the only manufacturer of condensing pulse boilers in the world. Its Pulse condensing hydronic boilers are available in models that range from 300,000 to 2.0 MM BTU/Hr input.

A pulse is defined as one cycle of ignition and combustion of a gas/air mixture in a specially designed combustion chamber. In addition to efficiencies achieved by burning fuel in a pulse combustion boiler, the absence of a power burner or blower motor dramatically reduces electrical power consumption and adds to the boiler's overall system efficiency. Pulse boilers are configured to meet low emission requirements, and a modulation control system provided precise temperature control with infinite turndown capabilities throughout the entire firing rate range.

Fulton's Pulse boilers are the most versatile commercial boilers on the market, featuring the lowest net energy usage, most flexible venting options and simplified system installation requirements. These features make the boilers idea for installation in the US Green Building Council Leadership in Energy and Environmental Design (LEED) certified buildings.

NEW PRODUCTS

Lochinvar Armor Condensing Water Heater

The Armor is now available in larger sizes up to 800,000 BTU.

- Up to 98% Thermal Efficiency
- Full Modulating with 5:1 Turndown
- Stainless Steel Heat Exchanger
- PVC Vented (100 equivalent feet Intake & Exhaust)
- Smart System Controller with Cascading Sequencer
- Controls up to 8 Units
- Models - 150 - 800 MBH Input
- Skid mounted packages available

[\(More Info\)](#)



Featured Job

Job Name: Silverwood Park Visitor Center: Three Rivers Park District - St. Anthony, MN

Mechanical Engineer: LKPB

Mechanical Contractor: Modern Piping

Equipment: (2) Fulton PHW500 Condensing Boilers



Condensing Steam Boilers?

No. Steam boilers are non-condensing and the maximum efficiency you can achieve is about 86%. Condensation in a boiler occurs when the temperature of the flue gas reaches its dew point causing the water vapor to change its state to a liquid. Condensing water boilers can operate at low temperatures and the cold return water reduces the flue gas temperature below its dew point. Steam boilers operate at higher temperatures which do not allow the flue gas temperature to reach its dew point thus never producing condensation.



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