



Cannon's On-Demand Condensing Economizer



The Concept:

Economizers have been a proven money saving concept for nearly 100 years. Now we can extend the efficiency of the traditional rugged Feedwater Heater style economizer, with less corrosion effect than a standard installation. Cannon's On-Demand unit now converts waste gas heat to free energy for your process, with minimal affect on any other piece of equipment in your facility.

Benefits:

1. On-Demand operation, only when your system needs hot water.
2. ROI may be less than 1 year— installed!
3. Invisible to boiler system
4. Easily inspected and repaired
5. Once optimized for your operation, it automatically heats recovers maximum heat
6. May boost boiler efficiency to over 90%

Typical Application

Operation	
Boiler Operation	150hp @ 75% load
Water at inlet	60F @ 25 GPM
Typical Conditions	
Gas inlet/exit temperature	400F / 105F
Water exit temperature	115F
Performance	
Total BTU's—Fuel Saved Per Hour	851,572
Fuel Savings per Hour	\$8.51
Size and weight -Skid mounted provided with detailed proposal, can be installed outdoors	

Come check us out on the web,

www.cannonboilerworks.com

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CANNON On-Demand units can be used wherever the boiler is burning natural gas or other clean fuels, and there is a high demand for heating cold water. Food processing or hospitals are typical applications. The water flow can be tied to boiler feed lines, or for another use such as cleaning and sterilization.

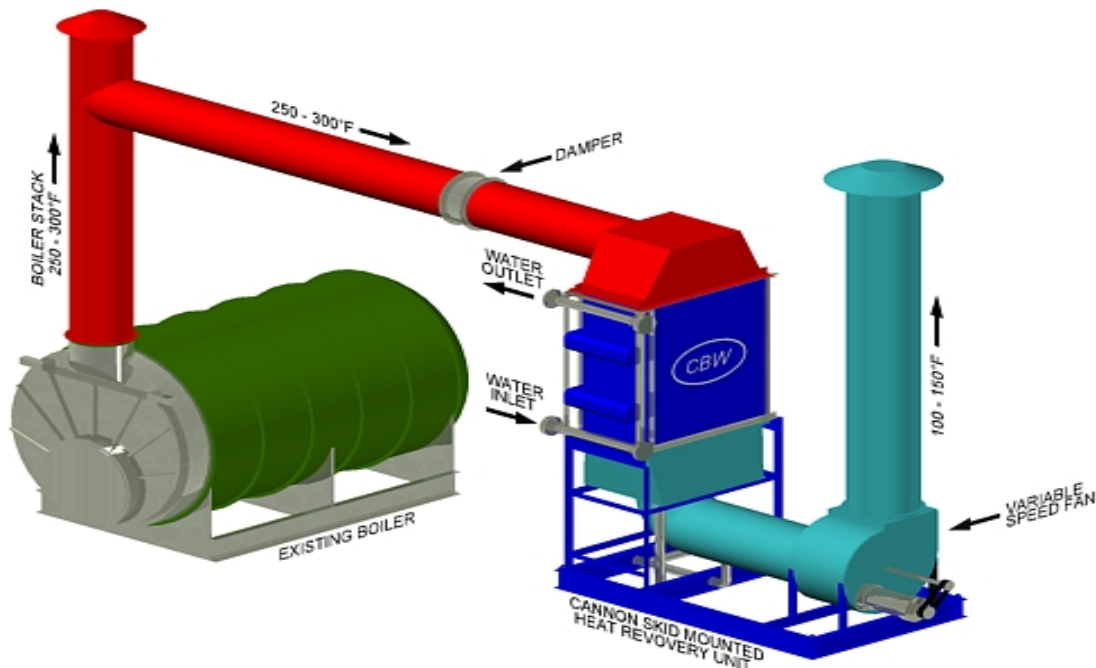
SPECIFICATION EXAMPLE: Contractor shall supply and install the following: CANNON On-Demand Condensing Heat Recovery Unit, Model _____ rated to recover _____, _____ BTU's per hour by cooling _____ pounds per hour of flue gas at atmospheric pressure to condensation temperature with _____ GPM of _____ F coolant water. The unit shall be a completely packaged and skid mounted heat exchanger. It shall be designed to recover the latent heat of vaporization contained in the flue gas of a clean exhaust stream, then safely divert

the condensed water to appropriate drain or use, minimizing upstream equipment damage due to corrosion or fouling. The unit shall contain stainless steel tubes with brazed-on stainless steel extended surface fins.

The unit shall be fitted with inlet and outlet transitions with drain system for condensed moisture removal. A VFD fan, exhaust damper, and control system shall be provided. Easily removable full access side panels shall be included on three sides of the unit, for full visual access to the tube bundle.

Options

- Safety relief valve
- Galvanized or painted support structure
- A.S.M.E. stamped and National Board Registered coil
- Coolant temperature flow control valve
- Upgrades in instrumentation and controls



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