



# INDIRECT FIRED WATER SYSTEM

Assures Rust Free Hot Water, Economical & Reliable  
for Low and High Temperature Applications

Gas, Propane or Low NOx Fired Models 300,000 to 3,000,000 BTU Input

209-211 Water Heaters

Indirect Hot Water Heater System

300,000 to 3,000,000 BTU Input

## THE COMPLETE HOT WATER SYSTEM INCLUDES:

**The Parker Indirect Fired Water Heater** is an industrial quality unit designed for economically heating large volumes of domestic or process water for commercial and industrial applications. The all bronze and copper heat transfer coil eliminates the possibility of rust throughout the water passages. The indirect principle of heating the process water with sealed-in primary water combined with controlled circulation minimizes the possibility of scaling within the heat transfer coil for low or high temperature applications.

**The Parker Hot Water Storage Tank** is of quality construction built in accordance with the ASME Code. Tanks are available vertical or horizontal in a wide range of sizes and include an attractive, durable exterior painted finish and an internal phenolic coating. Special warranted internal tank linings are available at nominal cost. A combination temperature-pressure gauge and safety relief valve are furnished with the system.



**The High Duty Circulator** has bronze-fitted construction, balanced centrifugal impeller and mechanical seal selected for each specific heater size.

**A Packaged Piping Kit** is also available and includes all the piping and valves shown above to easily connect the heater to the storage tank.

**Stainless Steel Option** is available on the heater with 316 stainless steel tubes and all stainless waterways for deionized or pure process water applications. Note: unit outputs are reduced, consult factory.

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**"Never a Compromise for Quality or Safety"**



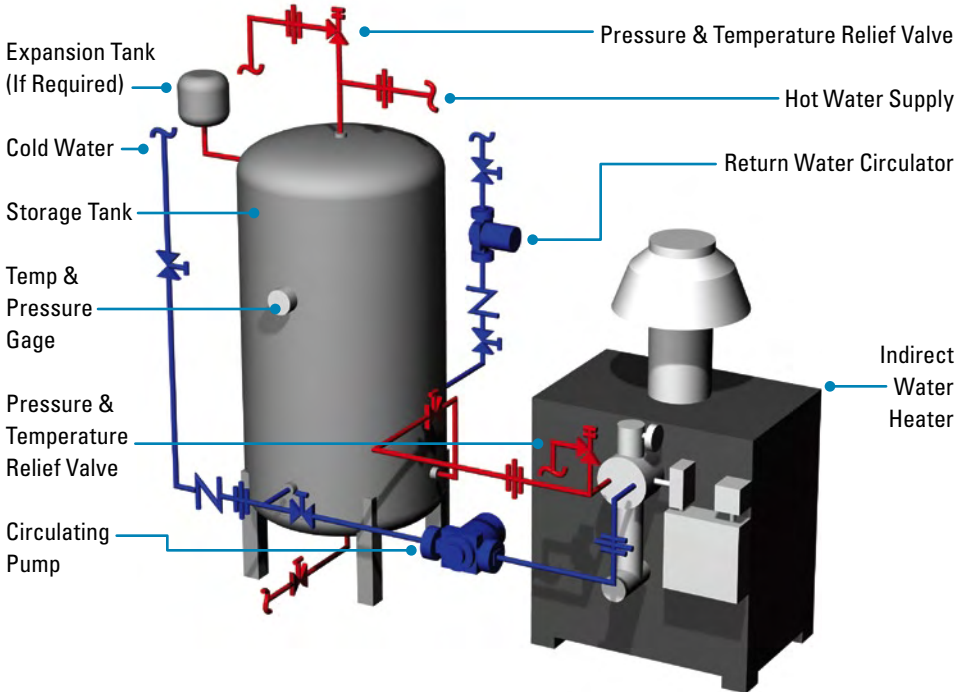
# PARKER INDIRECT HEATERS

Natural Thermal Circulating  
General Information



## 209-211 Water Heaters

### Typical Parker Indirect Hot Water Heater System for Hot Water Service



### INDIRECT FIRED WATER HEATERS

The Parker WH Model Indirect Fired Water Heater is an excellent choice for Low or High Temperature applications.

#### Uses Include:

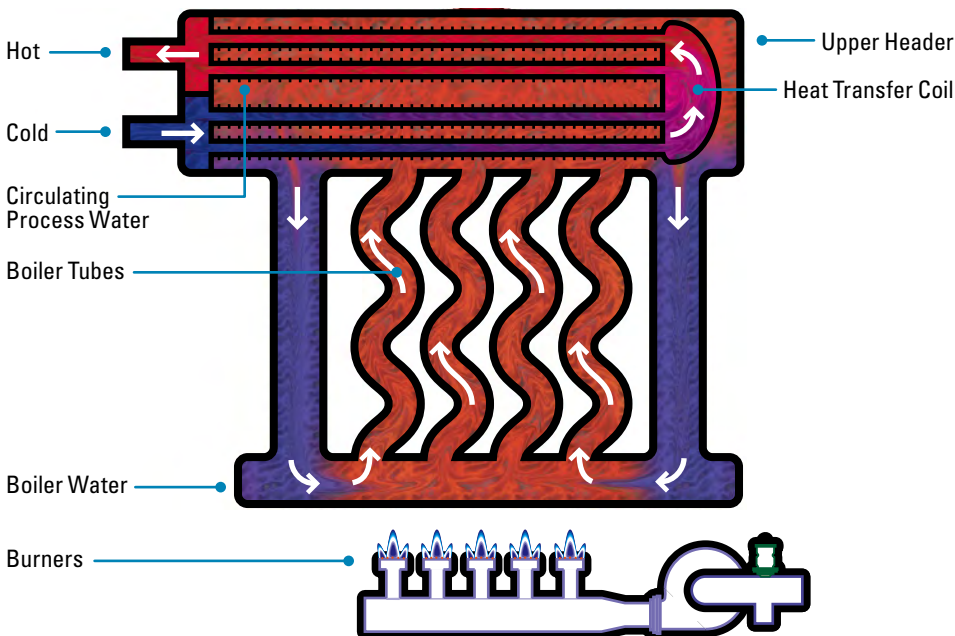
- Laundries
- Hotels
- Apartments
- Food Processing
- Hospitals
- Schools
- Swimming Pools
- Water Source Heat Pumps
- Low Temperature Process Water Applications
- Pond Heating
- Fish Farms
- Radiant Heating

The Basic Principle of indirect heating is accomplished by circulating the low temperature (or circulating process water) through a copper tube heat transfer coil which is mounted internally and immersed in the primary Boiler water. The primary Boiler water is contained in a Bent Steel Tube Bundle and is heated in the furnace area, it rises to the upper header where the heat transfer into the secondary water occurs. The colder secondary water does not come into contact with high furnace temperatures or into contact with the flue gas at all.

This eliminates any possibility of flue gas condensation which will occur on Direct Fired Heaters. Sweating and external corrosion of the Boiler Structure and tubes is essentially eliminated. The possibilities of scale, rust and corrosion are minimized by the indirect design principle.

The furnace remains at a steady uniform temperature which results in high combustion efficiency and lower fuel consumption. This principle has proven more efficient and provides for a longer life as opposed to a direct system.

### Indirect Heating Principle Diagram



209-211 Water Heaters



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