



# INDIRECT FIRED WATER HEATER

Natural Thermal Circulating  
300,000 to 3,000,000 BTU Gas Fired

## THE PARKER BOILER INDIRECT FIRED WATER HEATER

An industrial quality unit designed for economically heating large volumes of domestic or process water for commercial and industrial applications.

The all bronze waterways and copper heat transfer coil eliminate the possibility of rust through out the unit. 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. The unit will provide reliable hot water for low or high temperature applications.

### ADVANTAGES

#### 1. Safety

The Parker Boiler tube bundle is extremely flexible and offers a long life with a 25 year warranty against thermal shock. No Parker Boiler has ever been known to experience an internal explosion.

#### 2. Heavy Insulated Cabinet

The cabinet is durably constructed with two thicknesses of heavy steel, insulated on all sides with high temperature thermal fiber insulation to effectively reduce heat losses to a minimum.

#### 3. Increased Life & Reduced Repair Cost

The life of the heat transfer coil is far longer than the tubes of a direct fired system and can be replaced at a small percentage of the cost. The indirect heating principle definitely decreases the



maintenance cost of cleaning and upkeep.

#### 4. Codes

All Parker Boiler Water Heaters are manufactured in accordance with the ASME Power & Heating Boiler Codes and registered with the National Board of Boiler and Pressure Vessel Inspectors.

The standard natural gas fired model is furnished as an Underwriters Laboratories, Inc.

Listed Gas Fired Boiler Assembly and displays this symbol on the nameplate. Outdoor, propane and Low NOx models are ETL listed. Canadian models are C-ETL Listed Industrial and Commercial Gas Fired Packaged Boilers certified to CAN/CGA 1-3.1 and UL 795.

#### OPTIONS

##### Stainless Steel

Our Indirect Heater is available with all type 316 stainless steel

## 209-210 Hot Water Boilers

### Indirect Fired Water Heaters

300,000 to  
3,000,000 BTU Input

SCAQMD  
Certified to 1146.2



LISTED FOR POTABLE WATER

water-ways for deionized or pure process water applications. Note, unit out-puts are reduced, consult factory.

#### Combination Service

Inlet & outlet can be provided on the primary side to provide dual services.

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BROCHURE 209-210 164

"Never a Compromise for Quality or Safety"



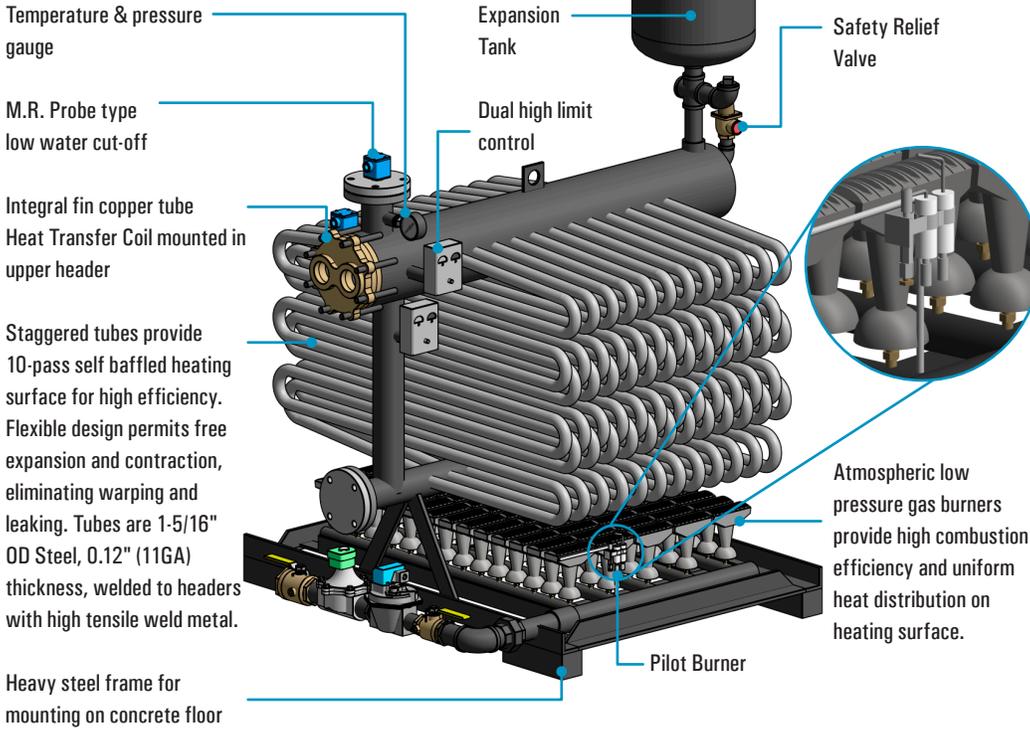
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## Indirect Fired Water Heater (internal view)



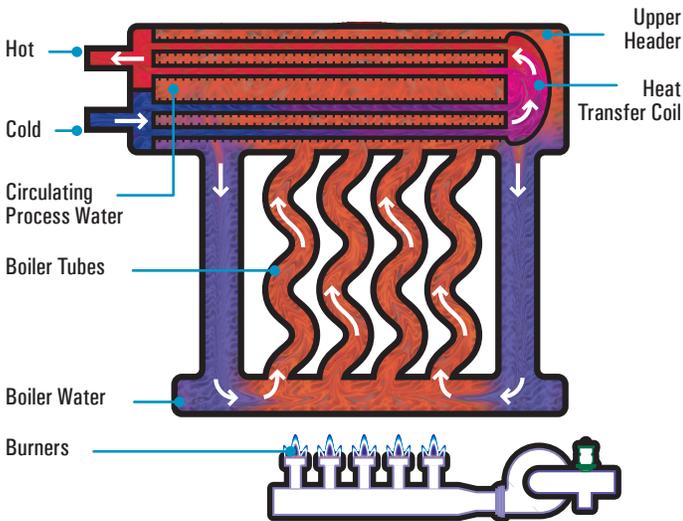
## INDIRECT FIRED WATER HEATERS

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

### Uses Include:

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

## Indirect Heating Principle Diagram



## INDIRECT HEATING PRINCIPLE

The Basic Principle of indirect heating is accomplished by circulating the low temperature or circulating processed 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.



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