



## All New from Top to Bottom The Burnham Commercial MPC™

Take one look at the MPC™, Multi-Pass Commercial boiler, and there is no question, that it is setting the new standard for USA-Made cast iron boilers. From the centralized 4-inch supply and control manifold, to seismic restraints, located on the section legs, the MPC is engineered to meet the needs of today's highly competitive boiler market.

### Efficiency

Efficiency has been the primary focus behind development of the MPC. Record-setting fuel prices have put "high efficiency" boilers in high demand. All sizes of the MPC are capable of reaching a minimum of 88% combustion efficiency on oil firing at 100% of rate without the use of a secondary, condensing heat exchanger.

The MPC can be used in a wide variety of applications with varying zone temperature requirements.

### 3-Pass Cast Iron Sectional Design

The MPC builds on the success of the MPO™ section design. By incorporating a symmetrical, three-pass combustion air flow pattern, the MPC is able to extract heat more efficiently from the flue gases than a typical one or two pass heat exchanger.

### Built-in Thermal Shock Protection

The impact of system operating conditions are not always considered in the operating sequence of the boiler, and can result in thermally induced stress (loosely referred to as thermal shock) to the cast iron sections.

Burnham has incorporated a Return Mixing Tube (RMT) into the design of every MPC boiler. The RMT disperses cool return water throughout the length of the section assembly. This eliminates areas of extreme hot and cold water within the boiler, and reduces the likelihood of experiencing problems related to thermal shock

### Modern Design

#### USA-Made Cast Iron Boiler

The MPC is the first commercial boiler of its kind to be manufactured in the USA.

A totally new jacket has been designed from scratch, for ease of assembly. Once the jacket framework is assembled, the panels interlock and hang off the frame.

A concealed chaseway, located in the top panels, hides wiring and harnesses, for a clean modern appearance.

A two-tone, sherpa blue and midnight black, jacket lets the customer know, right away, that this is something new and different. The textured powder-coat finish is resistant to fingerprints, smudges and discoloring. 4-Inch insulation lowers jacket losses and reduces boiler room temperatures.

### Easy to Assemble and Maintain

Burnham has teamed with an outside company to design and manufacture an MPC assembly tool that will make assembling sections faster and easier than ever before. The sections are assembled one at a time, by applying pressure evenly around the perimeter of the nipple ports, ensuring a tight assembly and helping to properly seat the nipples in the ports.

High-temperature silicone-coated rope gasket is compressed into a cast tongue-and-groove connection around the perimeter of the section, providing a durable, gas tight seal.



The MPC is equipped with a reversible burner swing door that allows front access to the combustion chamber and flue passages for cleaning. Covers, located at the rear of the boiler can be removed, to vacuum the rear flue collector.

## Upcoming

### September

- MPC Pressure Fired Boiler, Suggested Specifications
- I=B=R Certified ratings and efficiency data

### October

- Development of Sales literature and training material

### November

- Sales literature
- Training material
- Release MPC into full-scale production.

### Next Issue

State-of-the-art HAAS machining center.