# egasteam

Oil-Fired, Natural Draft, Cast Iron Steam Boiler

The Only ENERGY STAR-rated 3-Pass Steam Boiler! ENERGY STAR







- Unique 3-Pass Cast Iron **Heat Exchanger**
- 4 Sizes Available
  - 288 629 sq. ft. of steam
  - 0.75 1.65 GPH
- **High Corrosion Resistance**
- **Superior Steam Quality**
- **Tankless Heater Available**
- Best Steam Boiler Warranty in the Industry





# The ONLY 3-Pass, High Efficiency, Oil-fired Steam Boiler!

#### **Unique 3-Pass Cast Iron Design**

The Burnham MegaSteam boiler has been exclusively designed by U.S. Boiler Company engineers using a 3-pass, cast iron, sectional design that is unequaled in the industry. MegaSteam sections are produced in Burnham's own state-of-the-art foundry, and at 86% AFUE, MegaSteam boilers are ENERGY STAR® certified as the most efficient oil-fired steam boilers available.



The MegaSteam's 3-pass design helps produce high quality 99% dry steam (very low moisture content) while offering a high degree of corrosion resistance. This outstanding steam quality is incomparable in the industry and allows MegaSteam boilers to outperform competitive products in older steam applications where steam quality is critical.



In addition to the standard limited 10-year warranty on the cast iron heat exchanger, U.S. Boiler Co. warrants each Burnham MegaSteam boiler for 5 years against waterside corrosion, a common failure mechanism in steam boilers. The boiler's unique 3-pass design is instrumental in providing this important advantage.

MegaSteam's expanded corrosion warranty is unmatched in the industry.

### **Benefits of Installing a MegaSteam**

#### Easy to Install, Maintain, and Service

From installation to servicing, Burnham MegaSteam boilers have been designed with ease in mind. Installation features include a plug-and-play junction box with easy plug-in accessory connections and a reversible swing-away door with an easy connect power cord. For maintenance and servicing, the MegaSteam has removable stainless steel flueway baffles, rear flue cleanout plates and plenty of room in the flueways for easy and efficient cleaning.

#### **Optional Winter Warmth Assurance Program**

The cast iron heat exchangers on MegaSteam boilers are covered by U.S. Boiler Company's standard limited 10-year manufacturers warranty as well as additional 5-year protection against waterside corrosion. For additional protection, consider purchasing the U.S. Boiler Extended Warranty Plan, which provides blanket protection on parts and labor for up to 10 years from the date of installation.



# 3-inch jacket insulation minimizes heat loss

MegaSteam Boiler Model MST

Readily available controls:

- Honeywell Pressuretrol
- Hydrolevel CG450 LWCO

Reversible, swing-away cast iron door



MegaSteam boiler models are available with 222A tankless heater option, or for even more domestic hot water, use a Burnham Alliance SL indirect fired water heater.



Industry recognized Beckett AFG burner with cover Junction Box with plug-in accessory connections



#### **MegaSteam Rear View**



Rear flue outlet provides additional space for installing steam boiler piping

Dual, easy access cleanout plates for cleaning flueways

# **Burnham Alliance SL**<sup>™</sup> Indirect-fired Water Heaters

For an abundant supply of domestic hot water, be sure to use an Burnham Alliance SL indirect-fired water heater with every boiler application.



The Alliance SL water heaters are designed with an effective hydrastone lining that offers superior corrosion resistance and outstanding performance in a wide variety of water conditions.

Water heaters are available in five sizes and come with a unique 10/2/1 warranty -10 years on the tank and coil, 2 years labor and 1 year on parts.



## **Ratings**







	Burner Firing Rate		DOE	I=B=R Net Ratings		Flue	Minimum Chimney Requirements			energy	Water Content
Boiler Model	GPH	MBH <sup>1</sup>	Heating Capacity MBH <sup>2</sup>	Steam MBH <sup>3</sup>	Steam Sq. Ft.	Collar Diam. Inches <sup>4</sup>	Round In. Diam.	Rectangle In. x In.	Height Feet	ENERGY STAR  AFUE %	(Heater) to NWL Gallons
MST288	0.75	105	92	69	288	6	6	8 x 8	15	86.0	15.3
MST396	1.05	147	127	96	396	6	6	8 x 8	15	86.0	15.3
MST513	1.35	189	164	123	513	6	6	8 x 8	15	86.0	19.7
MST629	1.65	231	201	151	629	7	7	8 x 8	15	86.0	24.1

Notes: Maximum Working Pressure: 15 PSI Steam

- 1. The I=B=R Burner Capacity is based on oil having Higher Heating Value of 140, 000 BTU/Gal.
- 2. DOE Heating Capacity and Annual Fuel Utilization Efficiency (AFUE) are based on US Government tests at 13.0% CO<sub>2</sub> with No. 1 maximum smoke and 0.00" draft in the breach on standard equipment package.
- 3. Net I=B=R Ratings are based upon pick-up allowance of 1.333. Consult manufacturer with unusual piping and pickup requirements before selecting boiler.
- 4. Used for sizing flue connection materials.

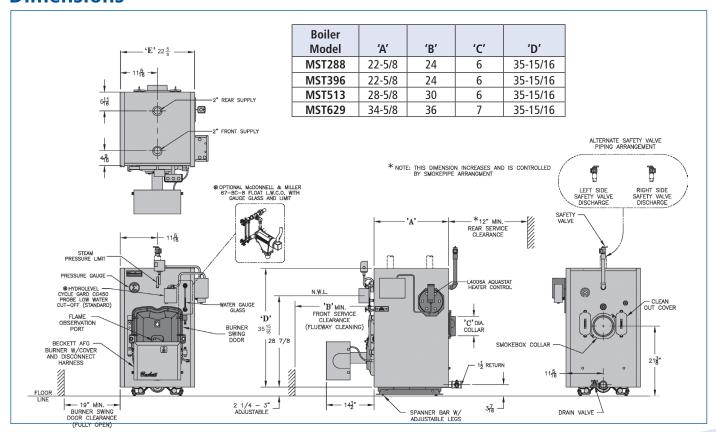
## **Optional Tankless Heater Ratings**

	*222A Tankless Heater				
Boiler Model	Rating GPM	Pressure Drop PSI			
MST288	3.00	22.0			
MST396	3.25	24.3			
MST513	3.50	26.5			
MST629	4.00	31.0			

#### Notes:

 Tankless Heater Rating, GPM is based on 100 F temperature rise with 40 F inlet water (intermittent draw) with boiler water temperature of 190°F.

### **Dimensions**





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