



## **SERIES 49**

### **Steam Boiler**

**Available in 12 sizes with inputs from 75MBH to 550MBH, for residential or light commercial applications.**

■ **10-year Waterside Corrosion Warranty**  
(residential sizes, under 300MBH only)

■ **Designed for reliability, efficiency, and performance**

- Wide internal waterways with an increased steam chest promote a stable water line.
- Greater resistance to corrosion in critical areas with no heat transfer pins above the water line and no crown sheet fins.
- Steam riser tapings are in the intermediate sections to promote smoother steam flow.

■ **Tappings on both end sections, return can be piped left or right**

- **Cast iron heat exchanger**
- **82% AFUE**
- **Natural Gas only**
- **Fully assembled (75MBH to 250 MBH)**
- **Sectional knock-down (299 to 550 MBH)**
- **Near Boiler Piping Kits available for models 49-075S to 49-299S**
- **2" Skim taping**

**Quality  
Value &  
Service**

# Series 49: Technical Information

## Standard Equipment

- UNMATCHED 10-yr limited heat exchanger warranty, 10-yr limited waterside corrosion
- Cast iron sectional design with metal push nipples
  - Wide waterways
  - Heat transfer pins below water line
  - Large steam disengaging area (steam chest)
  - Tappings on both ends
- Industrial-grade pressuretrol
- Auto Reset, Probe-type low water cut-off
- Auto Reset, Pressure Limit Control
- Optimized stainless steel burner tray
- Step-opening gas valve
- 2" risers
- Rear-mounted low profile draft diverter
- Vent damper (models 075-299)
- Junction box
- Thermostat isolating relay
- 15 PSI relief valve
- Gauge glass

## Standard Builds (100-399 MBH)

- Single Combustion control, continuous retry ignition (Honeywell S8610M) (models 100-299)
- Dual Combustion controls, continuous retry ignition (Honeywell S8610M) (models 350 & 399)
- Complete base assembly (base, manifold, burners, gas valve, pilot, insulation & base gasket)
- Draw rods/nuts/plates included

## CSD-1 Builds (450-550 MBH)

- Dual combustion controls, manual reset ignition, alarm (UTEC®1003 and UTEC 1145-2)
- Complete base assembly (base, manifold, burners, gas valve, pilot, insulation & base gasket)
- Additional auxiliary manual reset LWCO & pressuretrol
- Draw rods/nuts/plates included

SERIES 49 SPACE HEATING RATINGS NATURAL GAS ONLY						NO. OF SEC.	APPROX SHIPPING WEIGHT (LBS)
VELOCITY MODEL NUMBER	INPUT (MBH)	HEATING CAPACITY (MBH)	AHRI NET RATING STEAM		AFUE <sup>2</sup> (%)		
			SQ. FT.	MBH			
49-075S <sup>4</sup>	75	62	196	47	82.0	3	N/A <sup>3</sup>
49-100S	100	82	258	62	82.0	3	480
49-125S	125	103	321	77	82.0	4	595
49-150S	150	124	388	93	82.0	4	595
49-175S	175	144	450	108	82.0	5	725
49-200S	200	165	517	124	82.0	5	725
49-250S	250	206	646	155	82.0	6	840
49-299S	299	246	771	185	82.0	7	881 <sup>3</sup>
49-350S	350	284 <sup>1</sup>	890	213	81.0 <sup>2</sup>	8	1,008 <sup>3</sup>
49-399S	399	323 <sup>1</sup>	1,012	242	81.0 <sup>2</sup>	9	1,123 <sup>3</sup>
49-450S	450	365 <sup>1</sup>	1,143	274	81.0 <sup>2</sup>	10	1,239 <sup>3</sup>
49-500S	500	405 <sup>1</sup>	1,269	304	81.0 <sup>2</sup>	11	1,354 <sup>3</sup>
49-550S	550	446 <sup>1</sup>	1,397	335	81.0 <sup>2</sup>	12	1,469 <sup>3</sup>



AVAILABLE SOON

- 1 Gross output on models with inputs over 300MBH
- 2 Thermal efficiency on models with inputs over 300MBH
- 3 Weight for knock-down units
- 4 Conversion kit required, see "Accessories"

- Accessories:**
- Near boiler piping kit  
075-150 MBH P/N: 111295-01  
175-299 MBH P/N: 111296-01
  - Input conversion kit  
100 to 75 MBH P/N: 111251-01



## Series 49 Dimensions (inches)

VELOCITY MODEL NUMBER	A	B <sup>5</sup>	C	SUPPLY (NPT)	RE-TURN (NPT)	GAS CONN <sup>6</sup> (NPT)
49-075S	16-5/16	5	6	(1) 2	2	1/2
49-100S	16-5/16	5	6	(1) 2	2	1/2
49-125S	21-3/8	6	6-1/2	(1) 2	2	1/2
49-150S	21-3/8	6	6-1/2	(1) 2	2	1/2
49-175S	26-7/16	7	7	(2) 2	2	3/4
49-200S	26-7/16	7	7	(2) 2	2	3/4
49-250S	31-1/2	8	8	(2) 2	2	3/4
49-299S	36-9/16	8	8	(2) 2	2	3/4
49-350S	41-5/8	6 & 7	—	(3) 2	2	1/2 & 3/4
49-399S	46-11/16	6 & 8	—	(3) 2	2	1/2 & 3/4
49-450S	51-3/4	7 & 8	—	(4) 2	2	3/4 & 3/4
49-500S	56-13/16	8 & 8	—	(4) 2	2	3/4 & 3/4
49-550S	61-7/8	8 & 8	—	(4) 2	2	3/4 & 3/4

- 5 e.g. 6 & 7 indicates both 6 and 7 inch collar diameters (see installation manual)
- 6 e.g. 1/2 & 3/4 indicates both 1/2 and 3/4 inch gas connections

