



# 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



## Series 49: Technical Information

## **Standard Equipment**

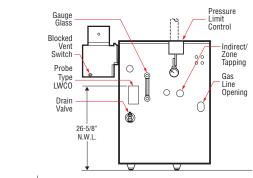
- UNMATCHED 10-yr limited heat exchanger warranty, 10-yr limited waterside corrosion
- Cast iron sectional design with metal push nipples
   Wide waterways
  - Heat transfer pins below water line
- Large steam disengaging area (steam chest)
- Tappings on both ends
- · Industrial-grade pressuretrol
- · 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		CERTIFIED® www.ahridirectory.org				APPROX	
VELOCITY MODEL NUMBER	INPUT (MBH)	HEATING CAPACITY (MBH)	AHRI NET RATING STEAM		AFUE <sup>2</sup>	NO. OF SEC.	SHIPPING WEIGHT (LBS)
			SQ. FT.	МВН	(%)		(123)
49-075S <sup>4</sup>	75	62	196	47	82.0	3	N/A³
49-100S	100	82	258	62	82.0	3	480
49-1255	125	103	321	<b>- 70</b>	82.0	4	595
49-150S	150	124	388	<b>293</b>	82.0	4	595
49-1755	173	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
49-2995	299	246	771	185	82.0	7	881³
49-350S	350	284¹	890	213	81.0 <sup>2</sup>	8	1,0083
49-399\$	399	323 <sup>1</sup>	1,012	242	81.0 <sup>2</sup>	9	1,123³
49-450S	450	365 <sup>1</sup>	1,143	274	81.0 <sup>2</sup>	10	1,239³
49-500S	500	405¹	1,269	304	81.0 <sup>2</sup>	11	1,354³
49-550S	550	446¹	1,397	335	81.0 <sup>2</sup>	12	1,469³

- 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>B</b> <sup>5</sup>	С	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
49-1255	21-3/8	6	6-1/2	(1)2	2	1/2
49-150\$	21-3/8	6	6-1/2	(1) 2	2	1/2
49-17 <b>58</b>	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
49-3995	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)

