



SERIES 49

Steam Boiler

Available in 10 sizes with inputs from 150MBH 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**
- **Sectional knock-down (150 to 550 MBH)**
- **Near Boiler Piping Kits available for models 49-150S to 49-299S**
- **2" Skim taping**

**Quality
Value &
Service**

Series 49: Technical Information

Standard Equipment

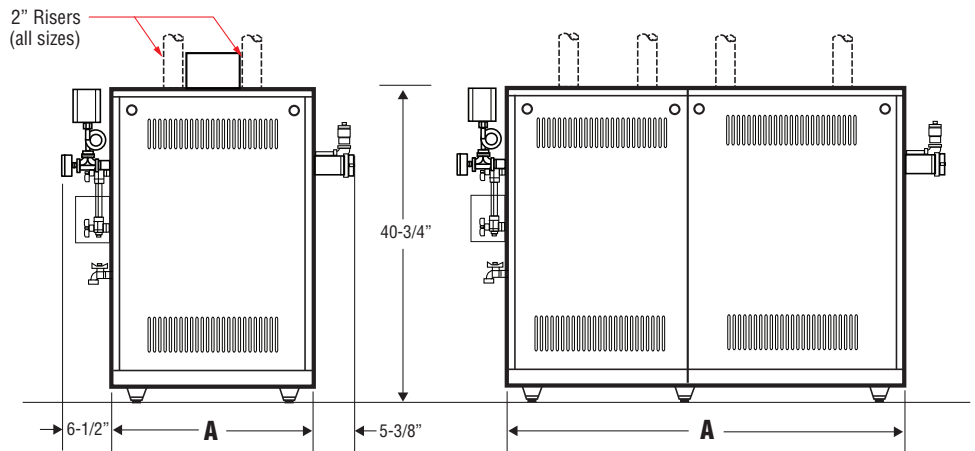
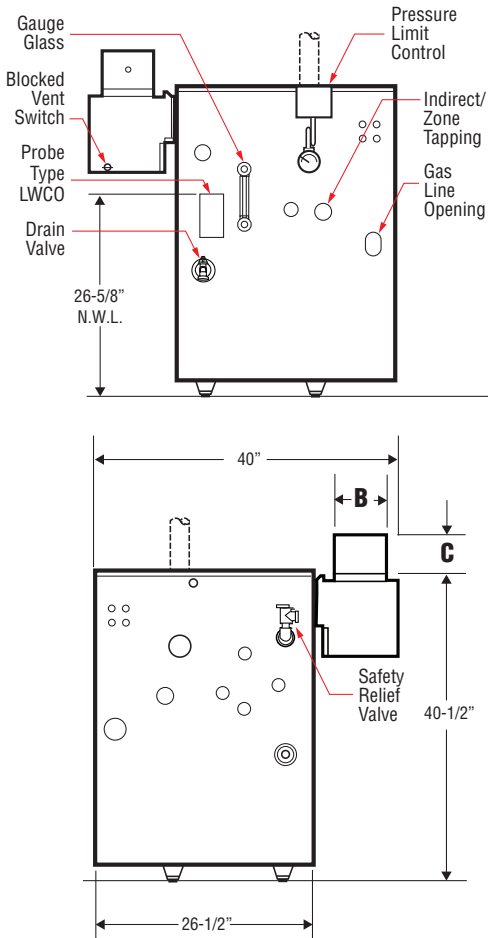
- UNMATCHED 10-yr limited heat exchanger warranty, waterside corrosion
- Cast iron sectional design with metal push nipples
 - Wide waterways
 - Heat transfer pins below water line
 - Large steam disengaging area (steam chest)
 - Tappings on both ends
- SteamMax boiler control suite
- Industrial-grade 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 150-299)
- Junction box
- Thermostat isolating relay
- 15 PSI relief valve
- Gauge glass

Standard Builds (150-399 MBH)

- Single Combustion control, continuous retry ignition (Honeywell S8610M) (models 150-299)
- 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 (UTECC@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 ² (%)		
			SQ. FT.	MBH			
49-150S	150	124	388	93	82.0	4	625
49-175S	175	144	450	108	82.0	5	750
49-200S	200	165	517	124	82.0	5	750
49-250S	250	206	646	155	82.0	6	875
49-299S	299	246	771	185	82.0	7	881
49-350S	350	284 ¹	890	213	81.0 ²	8	1,008
49-399S	399	323 ¹	1,012	242	81.0 ²	9	1,123
49-450S	450	365 ¹	1,143	274	81.0 ²	10	1,239
49-500S	500	405 ¹	1,269	304	81.0 ²	11	1,354
49-550S	550	446 ¹	1,397	335	81.0 ²	12	1,469



1 Gross output on models with inputs over 300MBH
2 Thermal efficiency on models with inputs over 300MBH

Accessories:
• Near boiler piping kit
150 MBH P/N: 111295-01
175-299 MBH P/N: 111296-01



Series 49 Dimensions (inches)

VELOCITY MODEL NUMBER	A	B ⁵	C	SUPPLY (NPT)	RETURN (NPT)	GAS CONN ⁶ (NPT)
49-150S	21-3/8	6	6-1/2	(1) 2	2	3/4
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

