



# HURST

BOILER & WELDING CO., INC.

AVAILABLE WITH LOW NOX

## HURST SERIES VIX

VERTICAL FIRETUBE BOILERS

**High Pressure Design**  
Capacities From 30 to 150 BHP.  
1004 to 5021 MBTU/HR.



Available in Steam  
& Hot Water Models



Skid Mounted Package



*Rifled Pattern*



Superior Heat Transfer Surface

**Enhanced Fire Tubes**

HURST PERFORMANCE SERIES BOILERS

# HURST

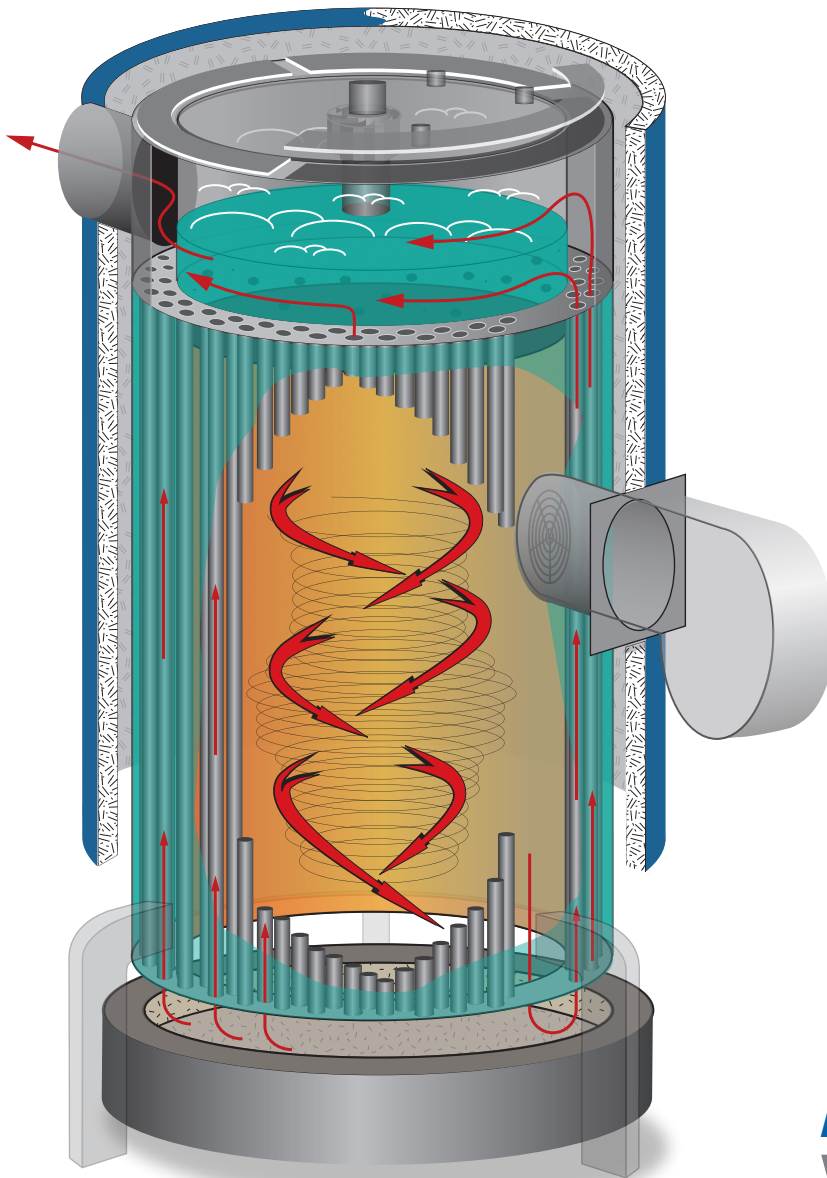
## 100% ALL STEEL CONSTRUCTION



*Rifled Pattern*

*Superior Heat Transfer Surface*

### Enhanced Fire Tubes



### Full Water Backed Furnace

*Built To Deliver Years  
of Reliable Service.*

■ **Totally new design** industrial grade construction, 2 pass fire tube design with enhanced heat transfer features. The VIX Series can offer higher efficiencies than standard vertical boilers. It is 100% water-backed and built for years of reliable service.

■ **Smaller foot print**  
More than 50% of standard vertical boilers.

■ **Easy access to burner** and eye-high control panel. All valves and control located within reach.

■ **Removable Turn-a-round box**  
Simply loosen the lug nuts and lower the section to inspect the system.

■ **Innovative vessel design**  
Constant calm water levels with water-to-steam stabilization features.

■ **Large steam chamber** with internal water separator insures "dry" high quality steam.


## ALL COMBUSTION WITHIN THE WATER WALL



#### PERFORMANCE ENGINEERED

Designed, constructed and stamped in accordance with the requirements of the ASME Boiler Codes.

Inspected and registered with the National Board of Boiler & Pressure Vessel Inspectors.

 We specialize in customizing your boiler. The VIX Series can be equipped to suit a wide variety of installations and specifications. We will help direct you to the most cost effective models and features.

### VIX SERIES

#### SECTION I

to 350 PSI. STEAM

#### SECTION IV

30 /160 PSI. HOT WATER

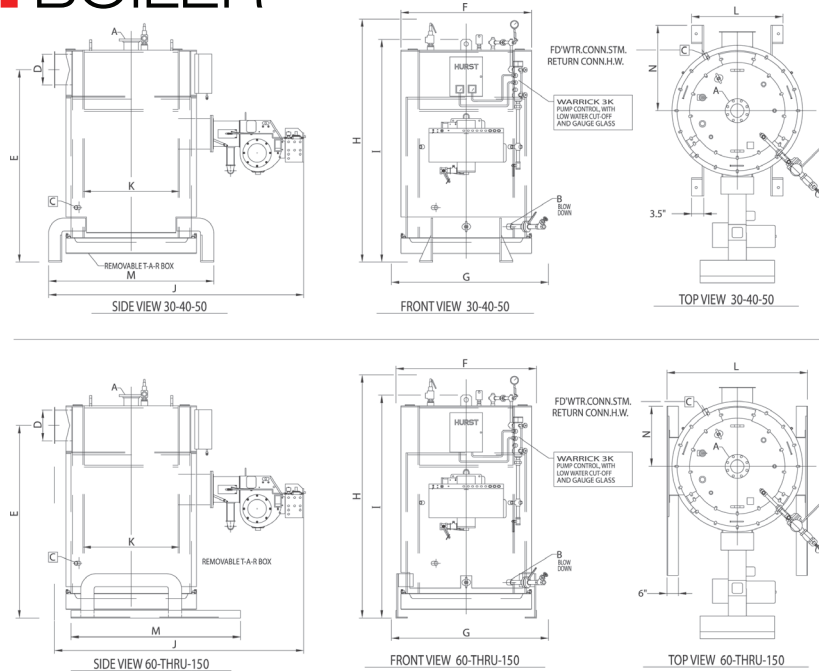
**Boiler Design:**  
2-Pass "Vertical"  
Enhanced Firetube Design

**Pressure Designs  
Steam:**

30-150 HP. - 150 PSI  
Higher pressures  
upon request.

**Pressure Designs  
Hot Water:**

30-160 max psi.  
High pressure, High Temperature  
Section I hot water  
boilers available.



#### BOILER SPECIFICATIONS

##### BOILER HORSEPOWER

		30	40	50	60	70	80	100	125	150	
	STEAM OUTPUT F&A 212°F LBS/HR	1035	1380	1725	2070	2415	2760	3450	4313	5175	
	GROSS OUTPUT BTU/HR BTU X 1000	1004	1339	1674	2009	2343	2678	3348	4184	5021	
	INPUT BTU REQ'D BTU X 1000	1255	1674	2092	2511	2929	3348	4184	5230	6000	
	FIRING RATE NAT. GAS 1000BTU/FT FT/HR	1255	1674	2092	2511	2929	3348	4184	5230	6300	
	FIRING RATE LP GAS 91,500 BTU/GAL GPH	13.7	18.3	22.9	27.4	32	36.6	45.7	57.2	69	
	FIRING RATE NO.2 OIL 140,000BTU/GAL GPH	9	12	14.9	17.9	20.9	23.9	29.9	37.4	45	
<b>A</b>	STEAM OUTLET HIGH PRESS. 150#	1.5	2.5	2.5	2.5	2.5	2.5	3	4	4	<b>A</b>
<b>A</b>	HOT WATER SUPPLY OUTLET	3	4	4	6	6	6	6	6	6	<b>A</b>
<b>B</b>	BLOWDOWN CONN. HIGH PRESS. 150#	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	<b>B</b>
<b>B</b>	BLOWDOWN CONN. LOW PRESS.	1.25	1.25	1.25	1.5	1.5	1.5	1.5	1.5	1.5	<b>B</b>
<b>C</b>	FEEDWATER CONN.	1	1	1	1	1	1	1.25	1.25	1.25	<b>C</b>
<b>C</b>	HOT WATER RETURN	3	3	4	4	4	4	4	6	6	<b>C</b>
<b>D</b>	STACK O. DIA.	10	10	10	14	14	14	14	16	16	<b>D</b>
<b>E</b>	STACK HEIGHT	80.6875	88.3125	88.3125	87.0625	87.0625	87.0625	87.313	87.313	87.313	<b>E</b>
<b>F</b>	WIDTH WITHOUT TRIM	36.75	42.875	42.875	54.25	54.25	54.25	63.63	72	72	<b>F</b>
<b>G</b>	WIDTH WITH TRIM SEE NOTE 1	53	58.5	58.5	60	60	60	70	78	78	<b>G</b>
<b>H</b>	OVERALL HEIGHT	104.375	115	115	115	115	115	117	119	119	<b>H</b>
<b>I</b>	HEIGHT WITHOUT TRIM	92.375	97.50	97.50	99.625	99.625	99.625	99.625	101.88	101.88	<b>I</b>
<b>J</b>	LENGTH SEE NOTE 1	76	83	83	97	97	98	112	120	120	<b>J</b>
<b>K</b>	FURNACE O. DIA.	24	30	30	36	36	36	44	50	50	<b>K</b>
<b>L</b>	SUPPORT WIDTH	26	30	30	54.25	54.25	54.25	63.63	72.68	72.68	<b>L</b>
<b>M</b>	SUPPORT LENGTH	50	56	56	63	63	63	72	81	81	<b>M</b>
<b>N</b>	SUPPORT TO CENTER LINE	24.88	28	28	26.38	26.38	26.38	27.313	29	29	<b>N</b>
	FIRESIDE HEATING SURFACE	94	138	138	151	151	151	217	322	322	
	FURNACE VOLUME	14	24	24	33	33	33	54	62	62	
	WATER CAP. @ NWL GALS.	78	141	141	167	167	167	221	276	276	
	WATER CAP. FLOODED GALS.	93	168	168	232	232	232	320	406	406	
	SHIPPING WEIGHT LBS.	2700	3706	3706	5074	5094	5094	7010	7050	7050	
	<b>BOILER HORSEPOWER</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>100</b>	<b>125</b>	<b>150</b>	

NOTE 1: LENGTHS, WIDTHS & WEIGHTS BASED ON HURST BOILER STANDARD BURNERS

NOTE 2: 30, 40, & 50 HP HAVE LEGS IN LIEU OF SKIDS

DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

CERTIFIED DRAWINGS AVAILABLE ON REQUEST



## HURST PERFORMANCE SERIES BOILERS

### INSPECTION ACCESS

- The waterside openings are located in the most effective positions. The lower hand holes offer far better access for both clean out and inspection.
- These more functional locations avoid the obstructing hand hole "tunnels" used by our competitors.
- The top opening offers a strategic view of the furnace crown sheet.

### SAFETY

- Electrical components are located away from the floor, helping to eliminate the possibility of water coming in contact with electricity.
- Trimmed with pressure vessel relief valves, pressure limit and burner safe guard controls.

### MORE STEAM STORAGE

- Capacity to handle swing and spike loads: quick recovery-quick response.
- The larger steam-release surface is calmer, reducing carry over of unevaporated water.
- The resulting drier steam also reduces system scaling.
- In addition, dry steam helps to eliminate unnecessary extra condensate. Energy and fuel are saved, resulting in longer boiler life.

### DURABILITY

- Fire does not pass under the bottom mud ring, eliminating the blistering that occurs with other designs.
- Cooler furnace gases are located at the bottom of the vessel where scale is most likely to occur. Baking of scale is alleviated in Hurst's design.

### EASIER SERVICE

- Thoughtfully engineered with the owner in mind.
- Access opening above feed water inlet for easy cleaning.
- Fireside tube access from top and bottom.
- No heavy doors or covers to complicate service procedures.

### RELIABILITY

- The furnace crown is water-cooled, eliminating refractory breakdown inherent in units of inferior design.
- No water coils or "in the fire" mud rings to burnout.

### "EYE HIGH" BURNER

- No step ladder is needed to service.
- No bending over or sitting on the floor.
- The air intake is located in the center of the unit so dust is not pulled from the floor.



Superior Heat Transfer

**ALL COMBUSTION  
WITHIN THE  
WATER WALL**

HBC-09530  
09/2017

Ask about the...

**HURST** SERIES FEEDMISER

**BOILER FEEDWATER SYSTEMS**

Feedwater Pump Station / Condensate Return

### OPEN VENT DESIGN

30 to 1000 gallon Tank Capacity.  
Optional Steam Pre-Heater.

*"Expect decades of service with this all steel construction featuring a 3/16" thick rolled tank supported by a robust structural pump station."*



 [hurstboiler.com](http://hurstboiler.com)



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**50**  
**YEARS**  
more solutions