HURST

BOILER & WELDING CO., INC

VIX SERIES

Vertical FireTube Boilers

High Pressure Design
Capacities From 30 to 125 BHP.
1004 to 4184 MBTU/HR.

Steam Pressures
to 350 PSI.
Hot Water Pressure
30-160 PSI

Available in
Steam & Hot Water Models

Skid Mounted Package

Enhanced Fire Tubes

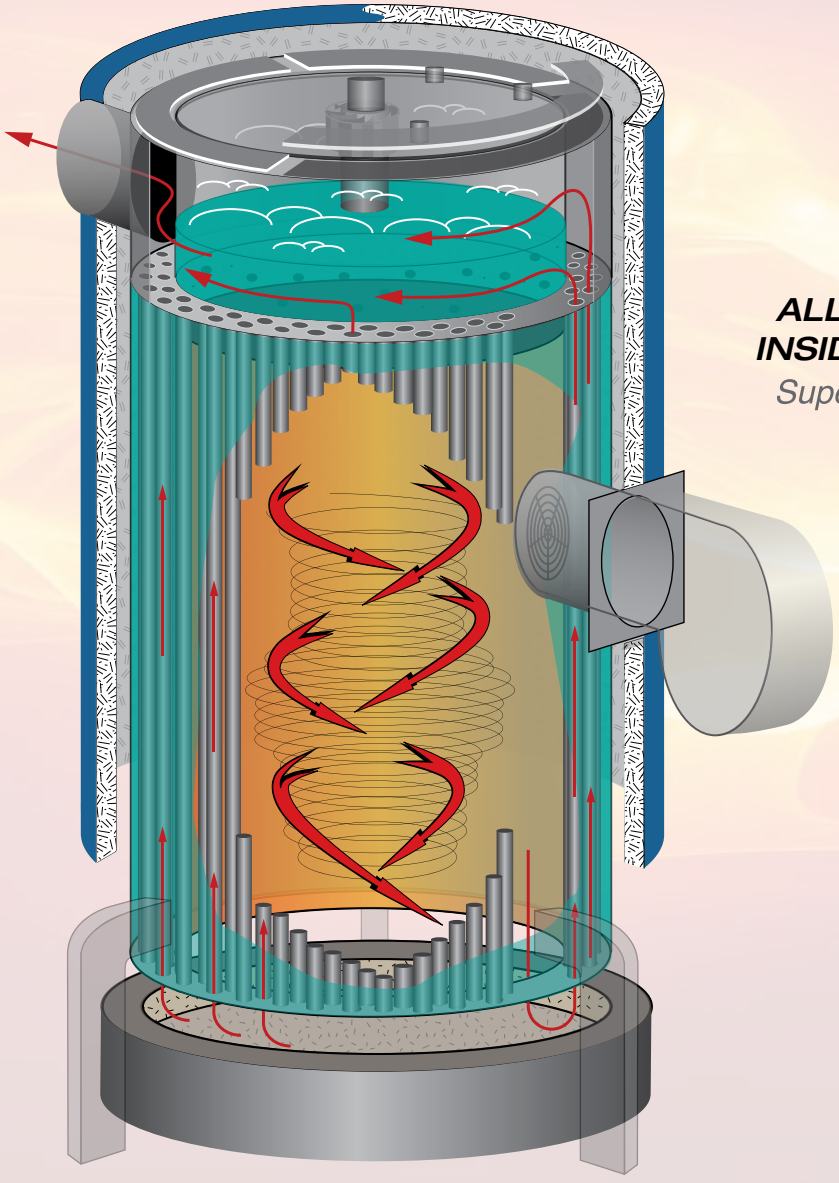
Heat Transferring Spiral Surface

AVAILABLE WITH LOW NOX

HURST PERFORMANCE SERIES BOILERS

HURST

Compact
FireTube Design
All Steel Construction



100% WATER BACKED DESIGN
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.

ALL COMBUSTION
INSIDE WATER WALL
Superior Heat Transfer

■ **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.

Hurst BOILER & WELDING COMPANY, INC.

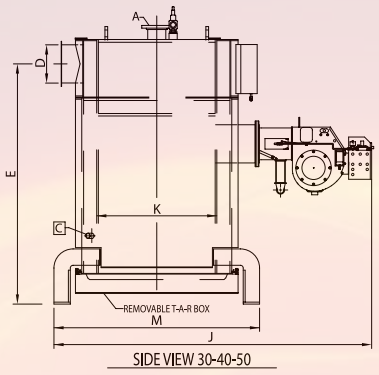
MORE MODELS
CHOICES
SOLUTIONS

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

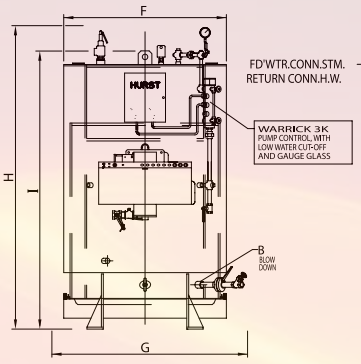
Designed, constructed and stamped in accordance with the requirements of the ASME Boiler Codes.

Section I
to 350 PSI. STEAM

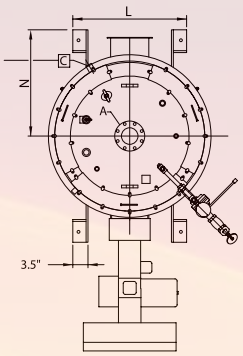
Section IV
30-160 PSI. HOT WATER



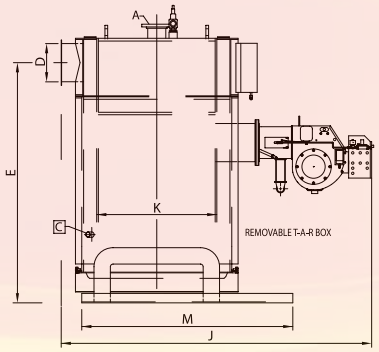
SIDE VIEW 30-40-50



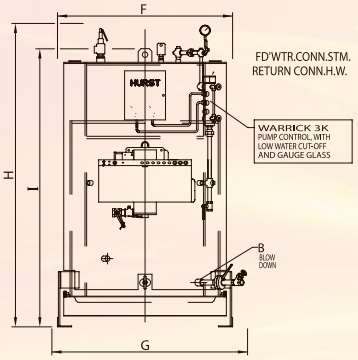
FRONT VIEW 30-40-50



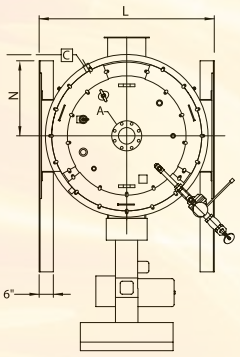
TOP VIEW 30-40-50



SIDE VIEW 60-THRU-125



FRONT VIEW 60-THRU-125



TOP VIEW 60-THRU-125

Enhanced Fire Tubes

Heat Transferring Spiral Surface

We specialize in customizing your boiler. The VIX 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.

BOILER SPECIFICATIONS

	BOILER HORSEPOWER	30	40	50	60	70	80	100	125	
	STEAM OUTPUT F&A 212 DEG. F. LBS/HR	1035	1380	1725	2070	2415	2760	3450	4313	
	GROSS OUTPUT BTU/HR BTU X 1000	1004	1339	1674	2009	2343	2678	3348	4184	
	INPUT BTU REQ'D BTU X 1000	1255	1674	2092	2511	2929	3348	4184	5230	
	FIRING RATE NAT. GAS 1000BTU/FT FT/HR	1255	1674	2092	2511	2929	3348	4184	5230	
	FIRING RATE LP GAS 91,500 BTU/GAL GPH	13.7	18.3	22.9	27.4	32	36.6	45.7	57.2	
	FIRING RATE NO.2 OIL 140,000BTU/GAL GPH	9	12	14.9	17.9	20.9	23.9	29.9	37.4	
A	STEAM OUTLET HIGH PRESS. 150#	1.5	2.5	2.5	2.5	2.5	2.5	3	3	A
A	HOT WATER SUPPLY OUTLET	3	4	4	6	6	6	6	6	A
B	BLOWDOWN CONN. HIGH PRESS. 150#	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	B
B	BLOWDOWN CONN. LOW PRESS.	1.25	1.25	1.25	1.5	1.5	1.5	1.5	1.5	B
C	FEEDWATER CONN.	1	1	1	1	1	1	1.25	1.25	C
C	HOT WATER RETURN	3	3	4	4	4	4	4	6	C
D	STACK O. DIA.	10	10	10	14	14	14	14	14	D
E	STACK HEIGHT	71.3125	76.3125	76.3125	87.0625	87.0625	87.0625	87.313	87.313	E
F	WIDTH WITHOUT TRIM	35.875	42.875	42.875	54.25	54.25	54.25	63.63	63.63	F
G	WIDTH WITH TRIM SEE NOTE 1	53	58.5	58.5	60	60	60	70	70	G
H	OVERALL HEIGHT	96	103	103	115	115	115	117	117	H
I	HEIGHT WITHOUT TRIM	81.50	88.50	88.50	99.625	99.625	99.625	99.625	99.625	I
J	LENGTH SEE NOTE 1	69	77	77	97	97	98	112	112	J
K	FURNACE O. DIA.	24	30	30	36	36	36	44	44	K
L	SUPPORT WIDTH	26	30	30	54.25	54.25	54.25	63.63	63.63	L
M	SUPPORT LENGTH	49.75	56	56	63	63	63	72	72	M
N	SUPPORT TO CENTER LINE	24.88	28	28	26.38	26.38	26.38	27.313	27.313	N
	WATER CAP. @ NWL GALS.	56	114	114	167	167	167	221	221	
	WATER CAP. FLOODED GALS.	68	141	141	232	232	232	320	320	
	SHIPPING WEIGHT LBS.	2300	3372	3392	5074	5094	5094	7010	7050	
	BOILER HORSEPOWER	**30**	**40**	**50**	**60**	**70**	**80**	**100**	**125**	

NOTE 1: LENGTHS,WIDTHS & WEIGHTS BASED ON HURST BOILER STANDARD BURNERS
DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE CERTIFIED DRAWINGS AVAILABLE ON REQUEST.
NOTE 2: 30,40,&50HP HAVE LEGS IN LIEU OF SKIDS

HURST

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.

SIMPLE INSTALLATION

- Unit is leg / skid mounted for easy handling.
- Factory wired with wiring schematic included in the manual.
- Efficient and space saving layout.

2-PASS DESIGN

The combustion gases travel down the furnace then reverse direction as they exit upward through the enhanced firetubes to merge in to this super-heat chamber surrounding the steam chest. This design will aid in delivering a drier steam before gasses exit the exhaust stack.

Heat transfers evenly through the tubes and boiler shell, eliminating the metal stress due to uneven heat transfer common in other designs.

AVAILABLE ACCESSORIES

- The VIX SERIES is available in a complete package with an optional compact skid-mounted feedwater system pre-wired and piped, ready to-fire.
- Blowdown separators are also available.

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 design.

EASIER SERVICE

- Fireside tube access from top and bottom.
- Access opening above feed water inlet for easy cleaning.
- Thoughtfully engineered with the owner in mind.
- 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.

SAFETY

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

Available in
Steam & Hot Water Models

Enhanced Fire Tubes
Heat Transferring Spiral Surface

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