

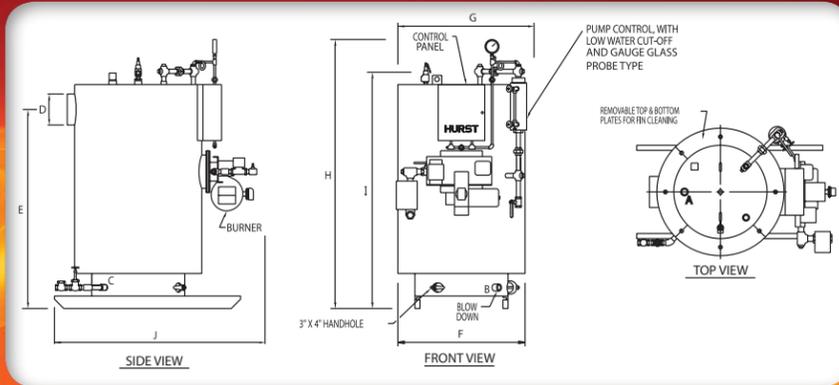
HURST

HURST PERFORMANCE SERIES BOILERS



Skid Packaged Options

- Feedwater System
- Water Softener
- Blow Down Flash Separator
- Chemical Mix Systems



BOILER SPECIFICATIONS			BOILER HORSEPOWER											
			6	10	15	20	25	30	40	50	60	70	80	100
STEAM OUTPUT	FROM & @ 212° F	LBS/HR	207	345	518	690	863	1035	1380	1725	2070	2415	2760	3450
GROSS OUTPUT	MBH	BTU X 1000	201	335	502	670	837	1004	1339	1674	2009	2343	2678	3348
INPUT REQUIRED		KCAL X 1000	51	84	127	169	211	253	337	422	506	590	675	844
FIRING RATE NAT. GAS	1000 BTU/FT	FT ³ /HR	251	418	628	837	1046	1255	1674	2092	2511	2929	3348	4184
FIRING RATE LP GAS	91,500 BTU/GAL	GPH	7.1	11.8	17.8	23.7	29.6	35.5	47.4	59.2	71.1	82.9	94.8	118.5
FIRING RATE OIL #2	140,000 BTU/GAL	GPH	2.7	4.6	6.9	9.1	11.4	13.7	18.3	22.9	27.4	32	36.6	45.7
		LPH	10.4	17.3	26	34.6	43.3	51.9	69.2	86.6	103.9	121.2	138.5	173.1
		LPH	1.8	3	4.5	6	7.5	9	12	14.9	17.9	20.9	23.9	29.9
		LPH	6.8	11.3	17	22.6	28.3	33.9	45.3	56.6	67.9	79.2	90.5	113.1
A STEAM OUTLET	HIGH PRESS.	IN	1	1	1	1	1.25	1.5	2	2.5	2.5	2.5	2.5	3
A STEAM OUTLET	LOW PRESS.	IN	25	25	25	25	32	38	51	64	64	64	64	76
B BLOWDOWN	150 PSI.	IN	2	2	2	3	3	4	4	6	6	6	6	6
B BLOWDOWN	LOW PRESS.	MM	51	51	51	76	76	102	102	152	152	152	152	152
C FEEDWATER		IN	1	1	1	1	1	1.25	1.25	1.25	1.25	1.25	1.25	1.25
D STACK DIA.		MM	25	25	25	25	25	32	32	32	32	32	32	32
E STACK HEIGHT		IN	1	1	1	1	1	1.25	1.25	1.25	1.25	1.5	1.5	1.5
F WIDTH WITHOUT TRIM		MM	25	25	25	25	25	32	32	32	32	38	38	38
G WIDTH WITH TRIM		IN	.75	.75	.75	.75	.75	1	1	1	1	1	1	1.25
H OVER ALL HEIGHT		MM	19	19	19	19	19	25	25	25	25	25	25	32
I HEIGHT WITHOUT TRIM		IN	8	8	8	8	8	10	12	12	12	14	14	14
J LENGTH		MM	203	203	203	203	203	254	305	305	305	356	356	356
SHIPPING WEIGHT	DRY	LBS	52	52	58	64	64	63	73	83	83	82	82	82
WATER CONTENT - WATER SERIES	FLOODED	GALS	1321	1321	1473	1626	1626	1600	1854	2108	2108	2083	2083	2083
WATER CONTENT - STEAM SERIES	NWL	LITERS	35.2	35.2	35.2	35.2	35.2	43.7	53.5	59	59	68	68	78.2
BOILER HORSEPOWER			894	894	894	894	894	1111	1359	1499	1499	1727	1727	1986
		MM	42	42	42	42	42	49.5	58.5	63	63	72	72	82
		MM	1067	1067	1067	1067	1067	1257	1486	1600	1600	1829	1829	2083
		IN	79	79	85	85	85	85	93	105	105	106	106	106
		MM	2007	2007	2159	2159	2159	2362	2667	2667	2667	2692	2692	2692
		IN	65	65	71	77	77	77	88	98	98	98	98	98
		MM	1651	1651	1803	1956	1956	1956	2235	2489	2489	2489	2489	2489
		IN	60	60	60	60	60	78	87	115	120	120	120	127
		MM	1524	1524	1524	1524	1524	1981	2210	2921	3048	3048	3048	3226
		LBS	1931	1931	2101	2181	2181	2621	4852	6680	6680	9225	9225	11205
		KG	876	876	953	989	989	1189	2201	3030	3030	4184	4184	5082
		GALS	62	62	68	79	79	113	208	313	313	440	440	591
		LITERS	235	235	257	299	299	428	787	1185	1185	1665	1665	2237
		GALS	48	48	54	54	54	73	122	158	158	196	196	290
		LITERS	182	182	204	204	204	267	462	598	598	742	742	1098
BOILER HORSEPOWER			6	10	15	20	25	30	40	50	60	70	80	100

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.

HBC-09505
01/2011

- CONNECTIONS OVER FOUR INCHES ON LOW PRESSURE MODELS ARE #150 FLANGES. ALL OTHER CONNECTIONS ARE NPT.
- DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE. CERTIFIED DRAWING AVAILABLE UPON REQUEST.



hurstboiler.com

HURST BOILER & WELDING CO., INC.

100 Boilermaker Lane • Coolidge, GA 31738-0530

Tel: (229) 346-3545 • Fax: (229) 346-3874

email: info@hurstboiler.com



HURST

BOILER & WELDING CO., INC

AVAILABLE WITH LOW NOX

SERIES 4VT

Vertical Tubeless Boilers

High PRESSURE BOILER.
Capacities From 6 to 100 BHP.
201 to 3450 MBTU/HR.

Section I
15-250 PSI. STEAM
Section IV
30-160 PSI. HOT WATER



Skid Mounted Package



UL Listed
Burner/Boiler Packaged

Compact Tubeless Design
All Steel Construction

LARGEST STEAM SPACE
IN ITS CLASS

HURST PERFORMANCE SERIES BOILERS

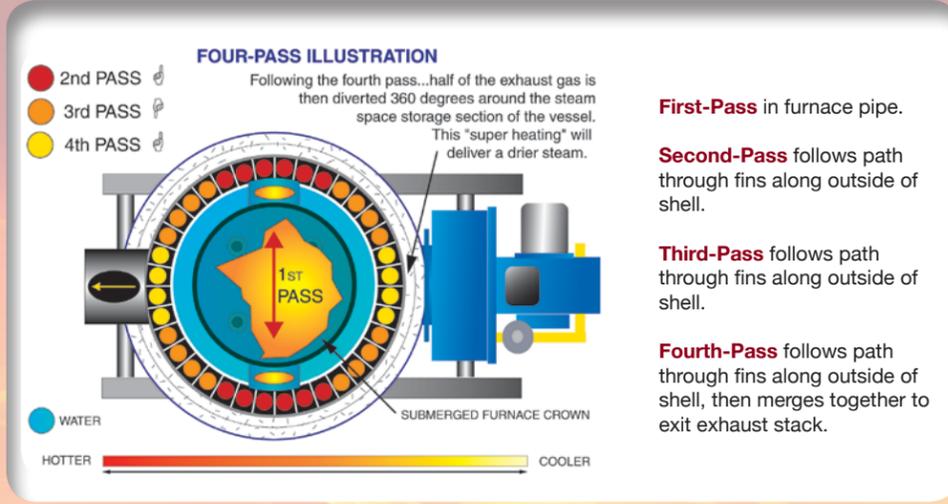


Illustration Shows the Progression of Four Gas Paths Around the Circumference of the Boiler Shell.

SIMPLE INSTALLATION

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

FOUR-PASS DESIGN

- The gases leaving the furnace are split four ways and travel through four individual serpentine fin passages to the stack outlet.
- Each quarter of the heat travels its own four-pass path (see illustration).
- Heat transfers evenly to the fins and boiler shell, eliminating the metal stress due to uneven heat transfer common in other designs.

AVAILABLE ACCESSORIES

- The 4VT is available in a complete package with an optional compact skid-mounted feedwater system for a finished wired and piped, ready-to-fire.
- Blowdown separators are also available.

INSPECTION ACCESS

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

OPTIONS AND ALTERNATIVES

- We specialize in customizing your boiler. The 4VT 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.

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. Longer life results.

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.

EASIER SERVICE

- Fireside fin access in 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.

TURBULENT FLAME

- Heat is forced down, with the fire whirling and spinning against its natural flow. This pattern enhances recirculation, mixing and heat transfer, driving more energy into the water for greater fuel-to-steam efficiency.

RELIABILITY

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

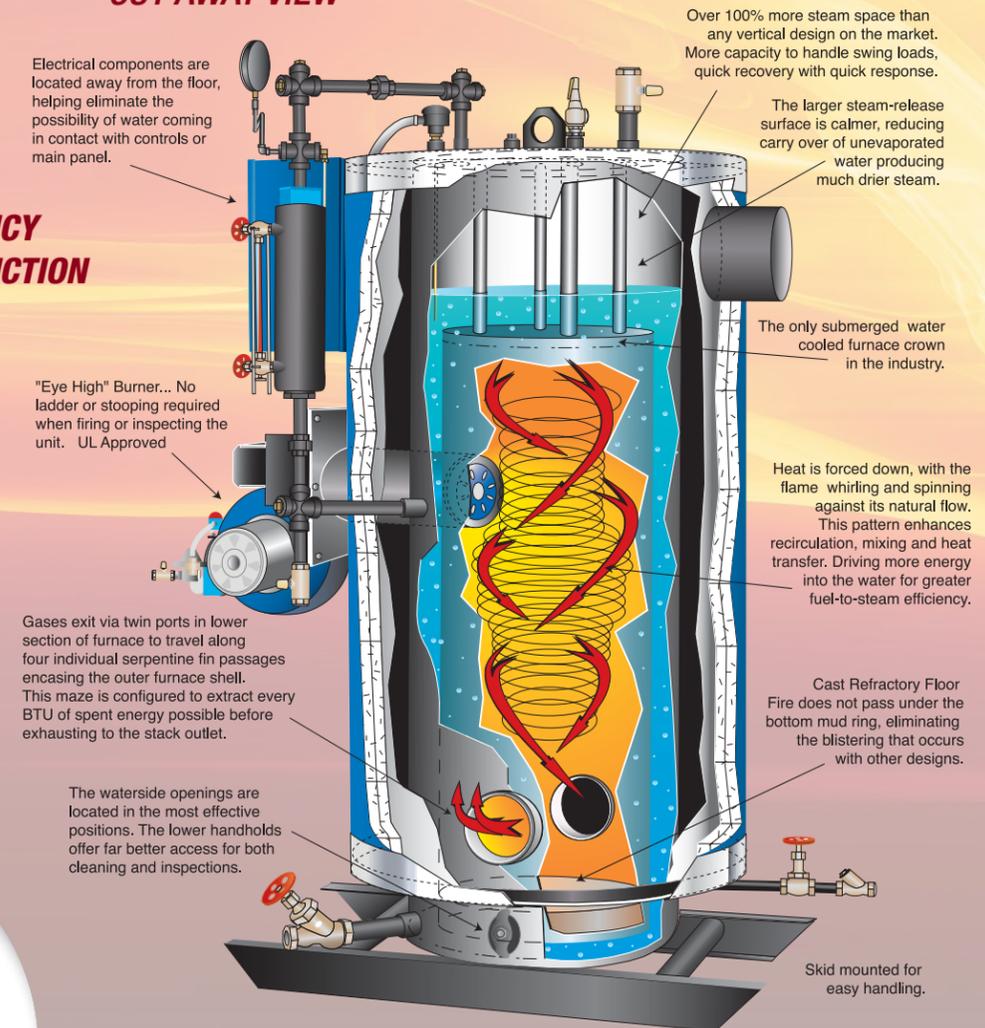
"EYE HIGH" BURNER

- 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.
- Boiler built to ASME Section 1, High Pressure Boiler Code.
- CSD-1 approved.
- Burner/Boiler UL Packaged

CUT AWAY VIEW



4-PASS EFFICIENCY ALL STEEL CONSTRUCTION

LOW NOX Pre Certified



4VT LN Series

Hurst Pre Certified 4VT LOW NOx boilers can achieve less than 30 PPM NOx at 3% O2 without the need for induced flue gas recirculation.

Pre Certified Under
SCAQMD RULE 1146.2

