

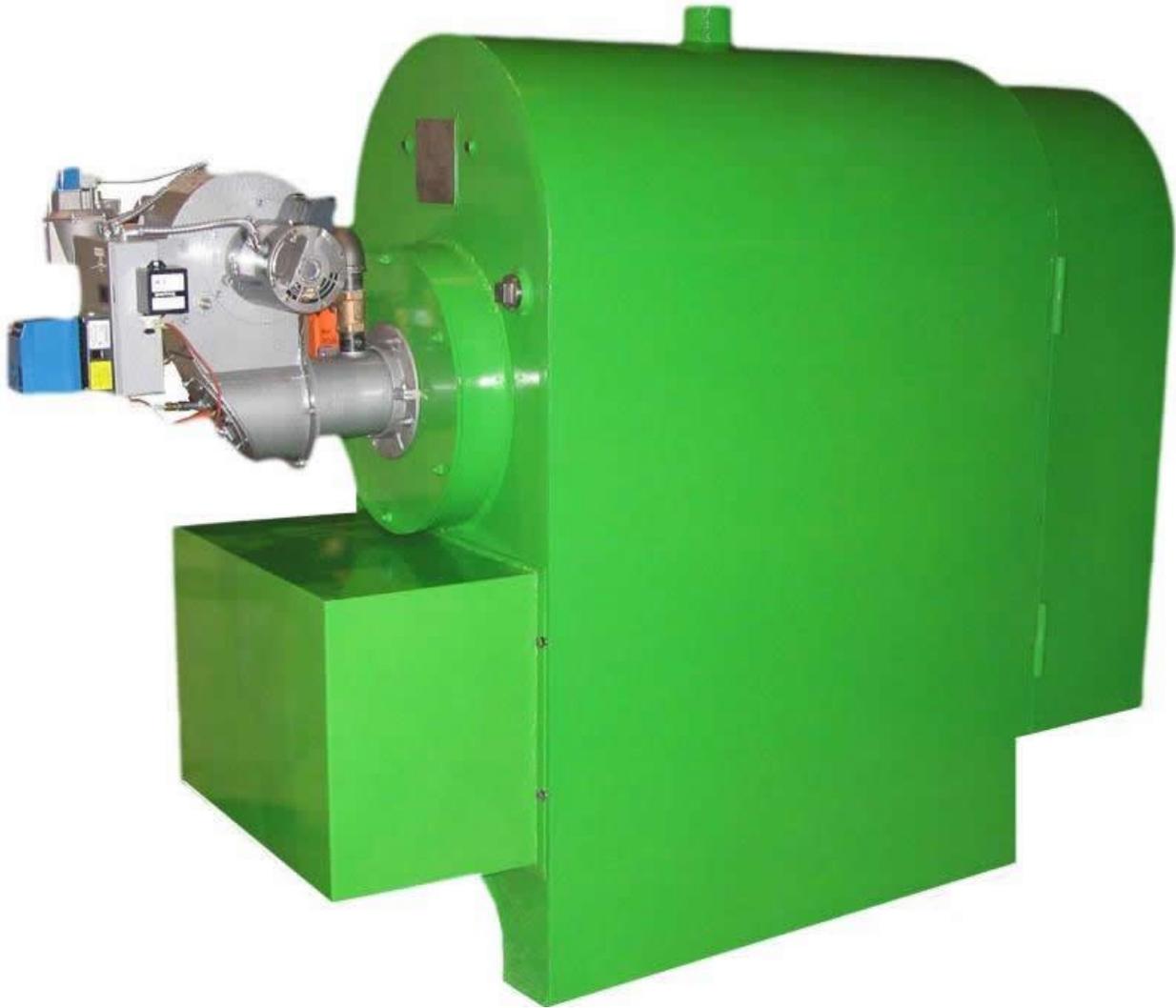


Firebox Series

LOW PRESSURE

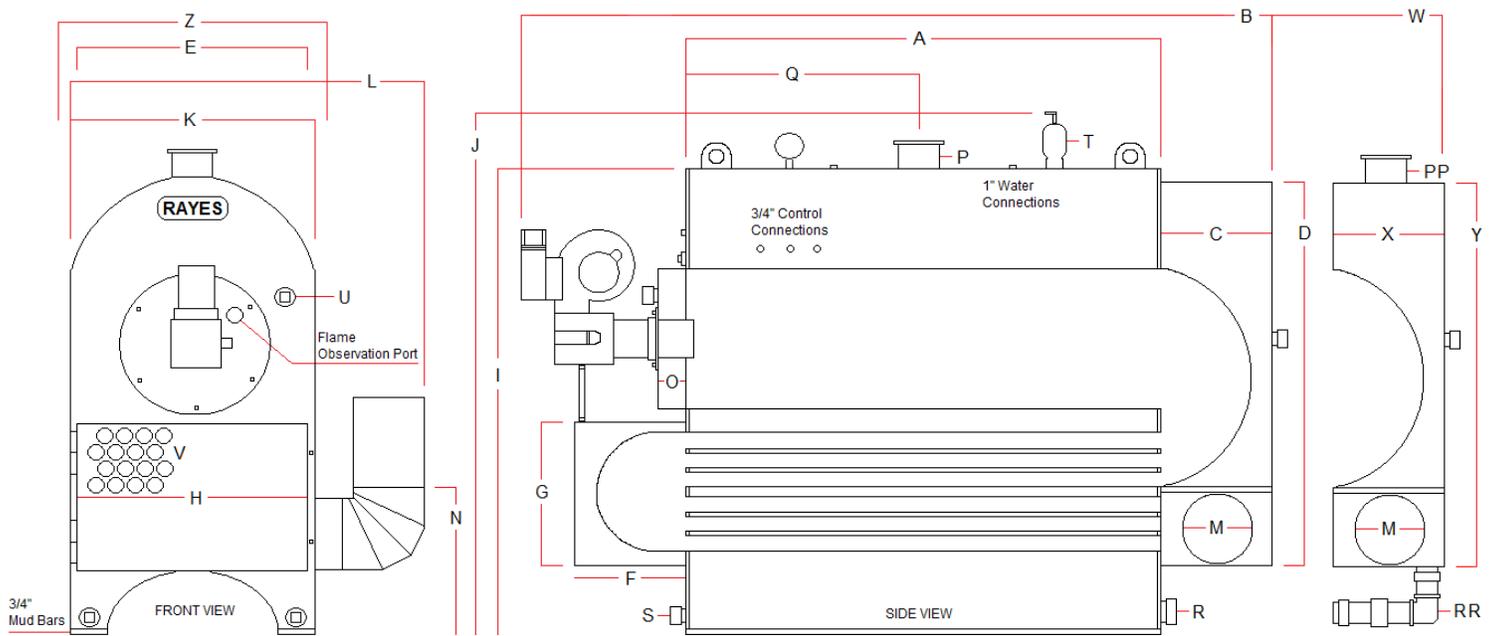
15 PSI Steam 30 PSI Water

Capacities From: 27.5 to 104 BHP 1155 to 4374 MBTU/HR.



We're Going Green...Come With Us!

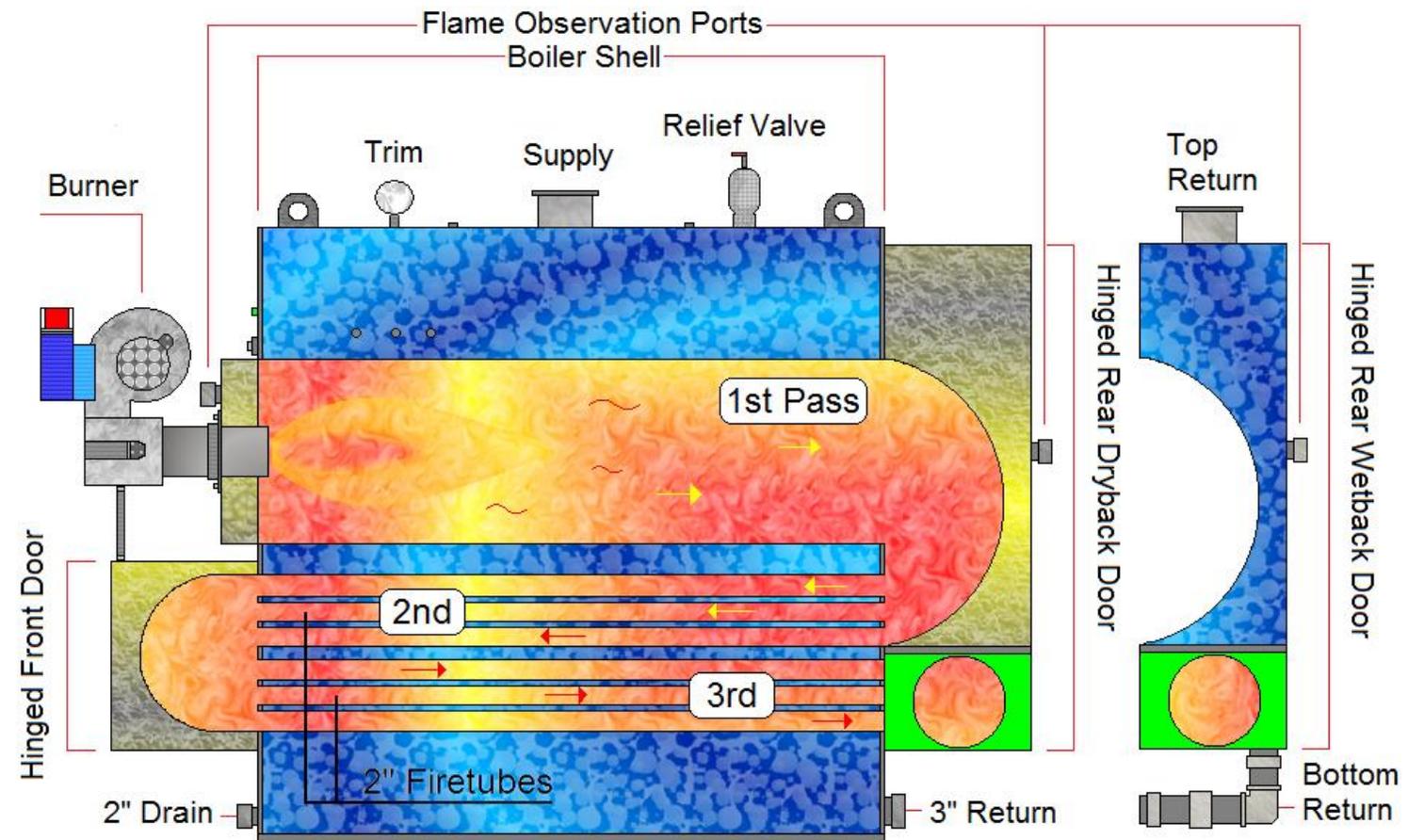
For more information and a free analysis contact us at
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Cad Drawings: 2003
[U.S Patent No. 6564756](#)

Dryback / Wetback System

FIREBOX SERIES **3-PASS DOWN-DRAFT FIRE-TUBE BOILER**



Firebox Series



Specification Sheet: (All DIMENTIONS ARE IN INCHES)

Dryback System

MODEL NO.			D2	D4	D6	D8	D10
BOILER HORSEPOWER		BHP	27.5	40	60	80	100
GAS INPUT (BTU. per hour)	1,000 BTU/CF	CFH	1,155,000	1,788,000	2,496,000	3,353,000	4,247,000
OIL INPUT, #2 (Gals. per hour)	140,000 BTU	GPH	9	12	18	24	30
GROSS OUTPUT (BTU. per hour)		MBH	920,500	1,339,000	2,008,500	2,678,000	3,347,500
GROSS OUTPUT STEAM (Lbs. per hour)	FROM & @212* F	LB/HR	948	1,380	2,070	2,760	3,450
TOTAL BOILER HEATING SURFACE		SQ. FT.	120	186	257	348	441
RADIANT HEATING SURFACE		SQ. FT.	13.5	21	29	39	50
FURNACE VOLUME		CU. FT.	5.6	8.7	12.17	16.35	20.71
FURNACE HEAT RELEASE		MBH / CU. FT.	206	205	205	205	205
A BOILER LENGTH WITHOUT ANY DOORS	BOILER SHELL	IN	31	48	67	90	114
B OVERALL LENGTH WITH DRYBACK DOOR	W/ STD. BURNER	IN	63	99	118	141	165
C REAR DRYBACK DOOR LENGTH		IN	16	16	16	16	16
D REAR DRYBACK DOOR HEIGHT		IN	55	55	55	55	55
E REAR DRYBACK DOOR WIDTH		IN	29	29	29	29	29
F FRONT DOOR LENGTH		IN	16	16	16	16	16
G FRONT DOOR HEIGHT		IN	21	21	21	21	21
H FRONT DOOR WIDTH		IN	29	29	29	29	29
I HEIGHT WITHOUT TRIM		IN	67	67	67	67	67
J HEIGHT WITH TRIM		IN	80	80	80	80	80
K WIDTH WITHOUT TRIM		IN	31	31	31	31	31
L WIDTH WITH STACK & TRIM	APPROX.	IN	56	56	56	56	56
M STACK DIAMETER O.D.		IN	10	10	10	10	10
N STACK HEIGHT		IN	22	22	22	22	22
O FRONT MORRISON TUBE DEPTH		IN	4	4	4	4	4
P SUPPLY	15-STM. & 30-WTR.	IN	4	4	6	6	6
Q SUPPLY LOCATION		IN	15.5	24	34	45	57
R RETURN SIZE	30-WTR.	IN	3	3	3	3	3
S DRAIN SIZE		IN	2	2	2	2	2
T SAFETY RELIEF VALVE		IN	2	2	2	2	2
U DOMESTIC WATER CONNECTION		IN	2	2	2	2	2
V BOILER FIRETUBE DIAMETER	ROLLED	IN	2	2	2	2	2
APPROX SHIPPING WEIGHT	W/ REFRACTORY	LBS.	3,827	4,320	4,870	5,537	6,231
WATER CAPACITY	(HOT / WATER)	GALS.	496	577	668	778	892
WATER CAPACITY	STEAM	GALS.	449	532	626	739	856
MODEL NO.			D2	D4	D6	D8	D10

Wetback System

(ALL OTHER DIMENTIONS ARE THE SAME AS A DRYBACK SYSTEM)

MODEL NO.			W2	W4	W6	W8	W10
BOILER HORSEPOWER		BHP	30	45.7	62.7	82.8	104
GAS INPUT (BTU. per hour)	1,000 BTU/CF	CFH	1,288,410	1,923,000	2,634,510	3,480,630	4,374,825
OIL INPUT, #2 (Gals. per hour)	140,000 BTU	GPH	8.9	11.95	17.93	23.91	32.12
GROSS OUTPUT (BTU. per hour)		MBH	1,004,250	1,529,807	2,098,882	2,771,730	3,481,400
TOTAL BOILER HEATING SURFACE	W/ WETBACK DOOR	SQ. FT.	134	200	274	362	455
RADIANT HEATING SURFACE		SQ. FT.	19.83	27.25	35.54	45.57	56.04
FURNACE VOLUME		SQ. FT.	8.26	11.35	14.80	18.98	23.35
FURNACE HEAT RELEASE		CU. FT.	156	169	178	183	187
W OVERALL LENGTH WITH WETBACK DOOR	W/ STD. BURNER	IN	95	112	131	154	178
X REAR WETBACK DOOR LENGTH		IN	29	29	29	29	29
Y REAR WETBACK DOOR HEIGHT		IN	57	57	57	57	57
Z REAR WETBACK DOOR WIDTH		IN	34	34	34	34	34
PP REAR WETBACK DOOR TOP RETURN	30-WTR.	IN	4	4	6	6	6
RR REAR WETBACK DOOR BOTTOM RETURN	30-WTR.	IN	3	3	3	3	3
APPROX SHIPPING WEIGHT	W/ REFRACTORY	LBS.	3,157	3,650	4,200	4,865	5,561
WATER CAPACITY	(HOT / WATER)	GALS.	690	775	869	984	1,104
MODEL NO.			W2	W4	W6	W8	W10

Firebox Series: DRYBACK / WETBACK

All Steel 3-Pass Down-Draft Fire-Tube Packaged Boiler

Rayes Boilers unique design of an innovative 3-Pass Down-Draft System on average, use less fuel to create steam or hot water for any application needs, in half the amount of time when compared to traditional boilers. Along with its unique design feature our line of boilers are greener and more innovative when compared to other traditional boilers in the market today. Rayes Boilers complete combustion system exhaust only 9 PPM of CO while other boilers in the market emit an average of 300 PPM. By reducing the fuel usage, and lowering the emissions release in return provides lower fuel costs. The design of the boiler also allows the installation of a universal modified version of the rear door converting the boiler into a complete Wetback System. This upgrade provides an additional 14% of heating surface to the boiler for more efficiency.

Capacities From: 27.5 to 104 BHP 1155 to 4374 MBTU/HR. 15 PSI Steam 30 PSI Water.

- Efficient All Steel 3-Pass Down-Draft Fire-Tube Boiler Design
- Flexibility - Gas, Oil, Heavy Oil, and Combination Gas/Oil
- ASME Code Constructed & Stamped for 15 PSI Steam/30 PSI Water
- Registered with the National Board of Boiler Inspectors
- Energy Star Rated 85% Efficient
- Competitively Priced, Easily Maintained, Designed for Efficiency
- Large Furnace Volume for Ultimate Combustion Efficiency
- Low Heat Release
- Factory Insulated - Mineral Wool Material
- Small Footprint Design for Easy Accessibility
- Hinged Front & Rear Doors for Easy Access to Tubes
- Optional Universal Hinged Wetback Door
- 2" Front Side Cleanout Openings
- 2" Domestic Water Connection
- Standard Fully Automatic Operation Controls
- U.L. Listed, Forced Draft Burners
- U.L. Listed Controls & Trim
- Factory Test Fired & ASME Approved
- Flame Observation Ports Front & Rear

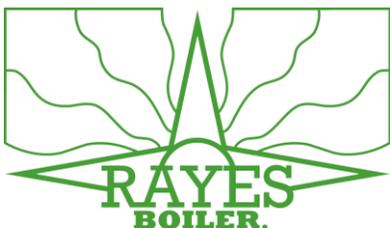


FIREBOX BOILER FEATURES:

Competitively-priced, with a designed footprint to fit through 32" doorways. The Firebox Series eliminates difficulty site assembly and building alterations, often giving the customer an option of keeping the existing boiler in place and avoiding removal expenses. The choice of any standard burner is designed to be installed at the top front of the boiler for enhanced heat temperature transfers to the main connection. The concave bottom helps with the collection of mud and sludge along the sides of the interior of the boiler, for an easier washout when needed. The front and rear hinged doors swing open to allow easy access while cleaning tubes. The Firebox line of boilers is manufactured for the use in Low Pressure 15 PSI Steam and 30 PSI Hot Water applications, providing for efficient operation and low cost maintenance. It's built and stamped in accordance with the requirements of the ASME Code, and listed by the National Board of Boilers and Pressure Vessel Inspectors.

Manufactured in the USA by:

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www.RayesBoiler.com



Quality | Performance | Efficiency |

