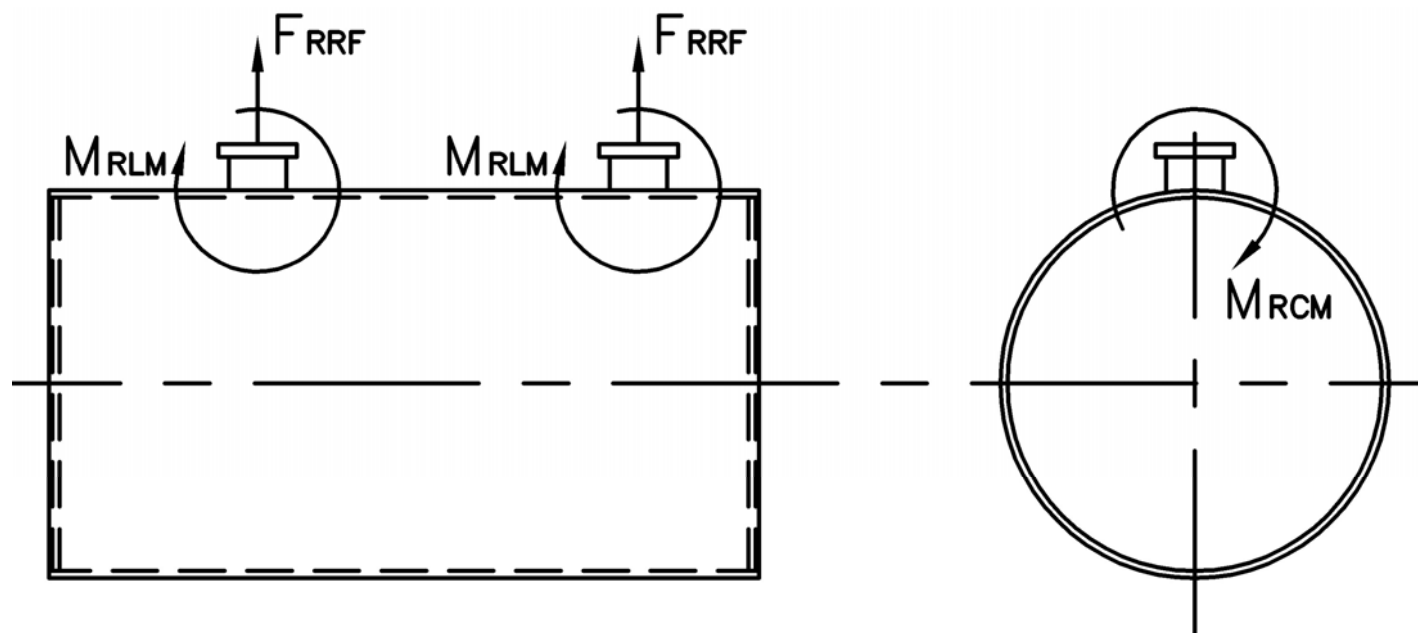


MODEL: PFTX 750-4

Nozzle Loadings

Maximum Allowable Load on Outlet & Return Nozzles				
	30# Design	60# Design	125# Design	160# Design
F_{RRF} , lb	4,985	3,865	5,260	6,590
M_{RCM} , in-lb	36,915	36,915	73,425	92,710
M_{RLM} , in-lb	48,235	37,405	58,470	70,870



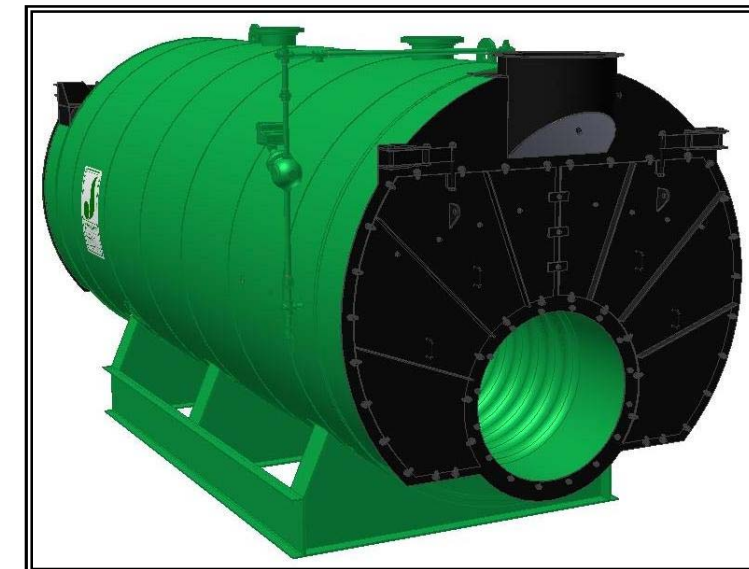
Distributed By:



300 Pine Street
P.O. Box 300
Ferrysburg, MI 49409-0300
Telephone: (616) 842-5050
Net: www.johnstonboiler.com

MODEL: PFTX 750-4

4-Pass Hot Water Packaged Firetube Boiler



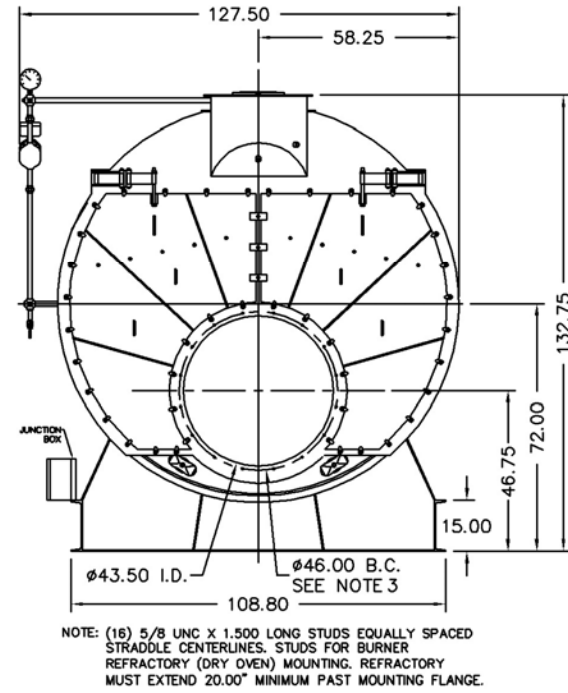
Ratings & Performance Data

Horsepower 750		Natural Gas Flow, SCFH (1,000 Btu/ft ³)**	29,078
Total Heating Surface, ft ²	3,727	Combustion Air (15% Excess), SCFM***	5,321
Furnace Outside Diameter, in	49.5	Flue Gas Flow Rate, lb/hr***	25,358
Furnace Heat Release Rate, Btu/ft ³ hr**	154,000	Stack Flue Gas Velocity, ft/min***	1,796
Total Combustion Volume, ft ³	252.5	#2 Oil Flow, gal/hr (140,000 Btu/gal)**	200.4
Total Heat Release Rate, Btu/ft ³ hr**	115,000	#6 Oil Flow, gal/hr (150,000 Btu/gal)**	185.5
Water Content Flooded, gal	5,197	Flue Gas Side Pressure Drop, in. H ₂ O	6.1
Approx. Dry Weight 30#, lb	51,000	Approx. Operating Weight 30#, lb	93,500
Approx. Dry Weight 60#, lb	51,200	Approx. Operating Weight 60#, lb	93,700
Approx. Dry Weight 125#, lb	53,200	Approx. Operating Weight 125#, lb	95,700

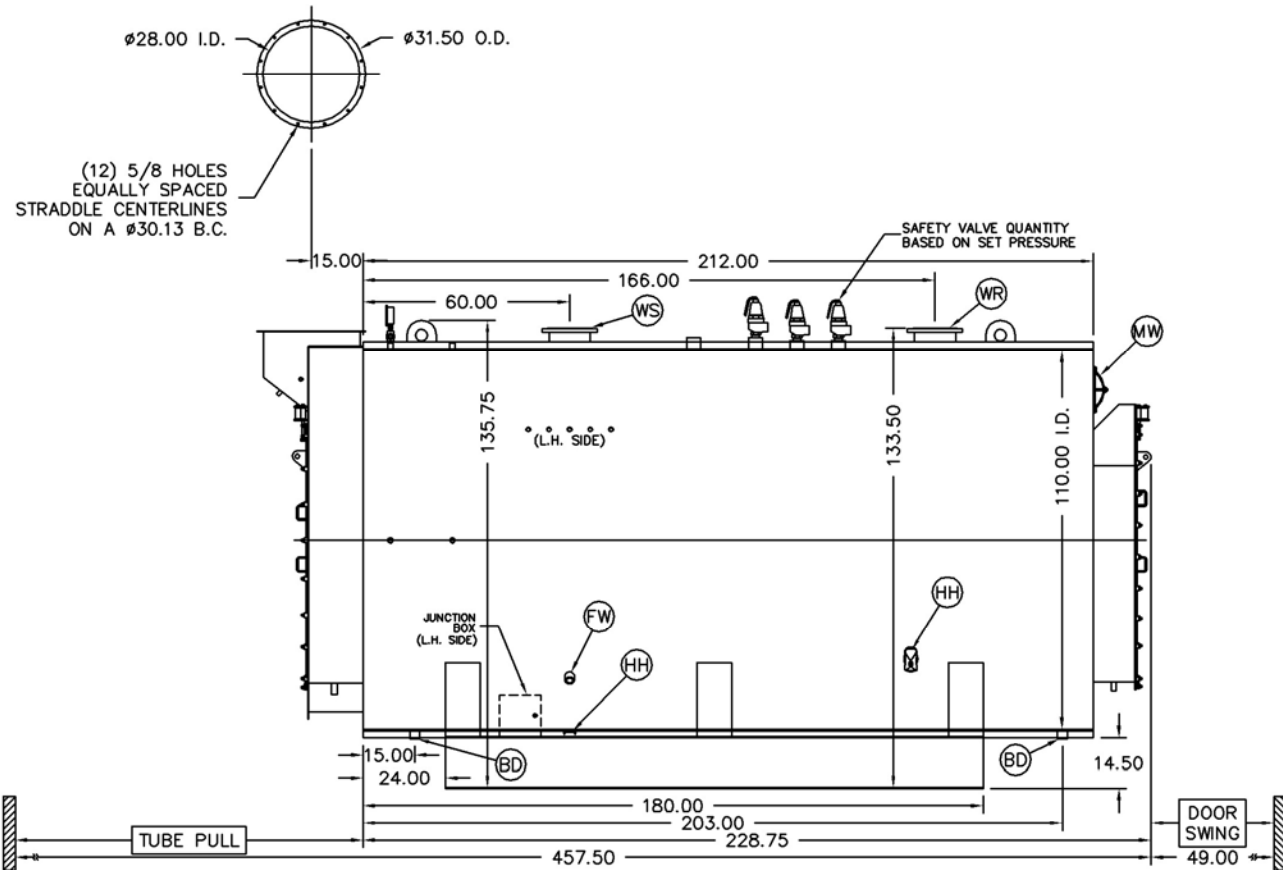
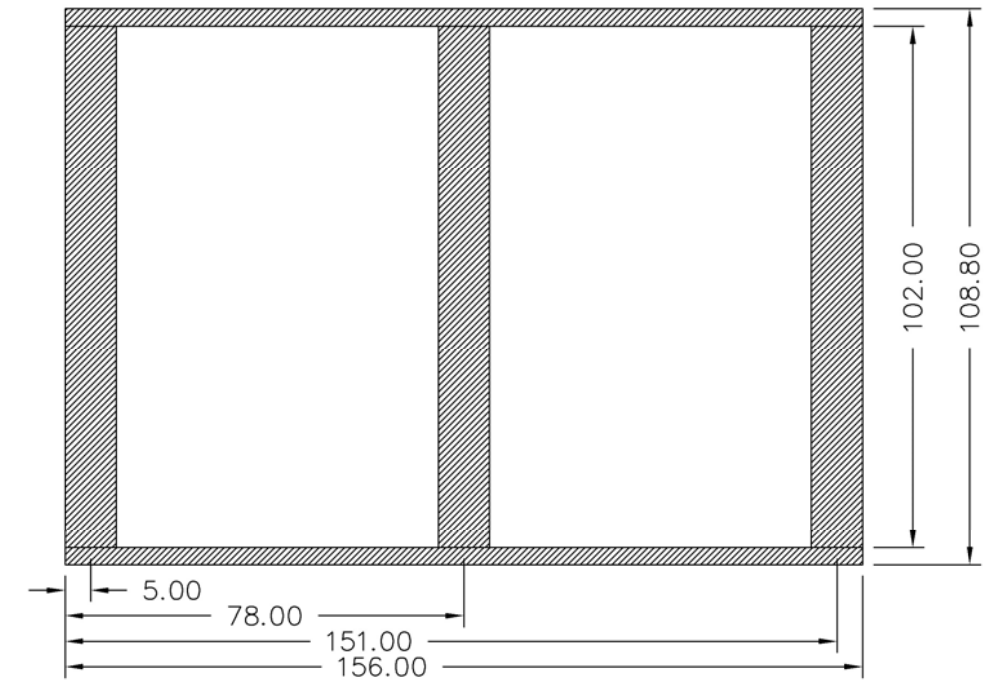
Operating Temperature (F)	Natural Gas		#2 Oil		#6 Oil	
	Stack Temp (F)	%Eff	Stack Temp	%Eff	Stack Temp (F)	%Eff
180	222	86.8	231	90.0	237	90.7
200	241	86.3	250	89.5	257	90.2
220	261	85.9	270	89.0	276	89.7
240	281	85.4	289	88.5	296	89.2

*Based on 20°F difference in supply/return, ** Values calculated at 200°F operating temperature, ***Calculated Firing Natural Gas

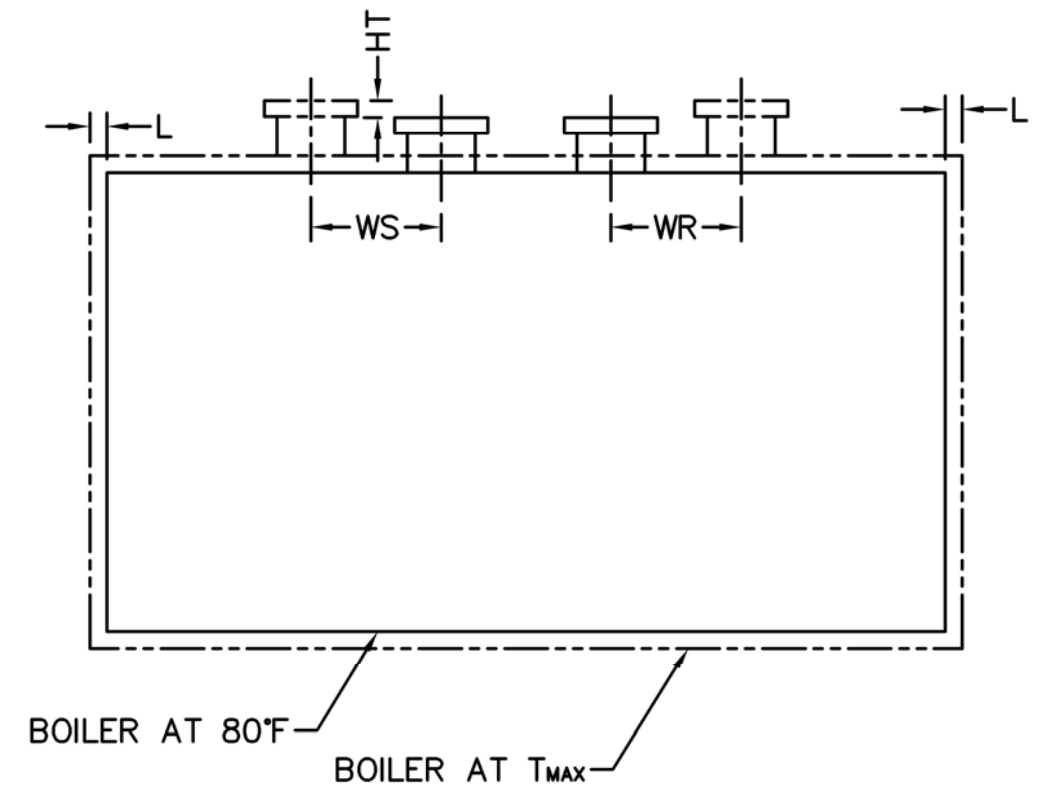
Connection & Opening Schedule			
Conn.	Description	Type	Qty
FW	Feedwater Inlet	2.00 FNPT	2
WS	Water Supply	10.00 150#RF	1
WR	Water Return	10.00 150#RF	1
DO	Drain Outlet	2.00 FNPT	2
MW	Manway	12 X 16	1
HH	Hand Hole	4 X 6	7
Supply and return outlets ASME flanged drilling			



Base Diagram



Notes:
 30# Hot Water design shown, all dimensions given in inches.
 Fuel piping and/or optional boiler trim may increase overall width.
 Specifications subject to change to incorporate engineering advances.



Thermal Expansion				
Metal T _{MAX} (F)	180	200	220	240
L (in)	0.064	0.076	0.089	0.102
WS (in)	0.028	0.033	0.039	0.044
WR (in)	0.036	0.043	0.050	0.058
HT (in)	0.066	0.080	0.093	0.106