

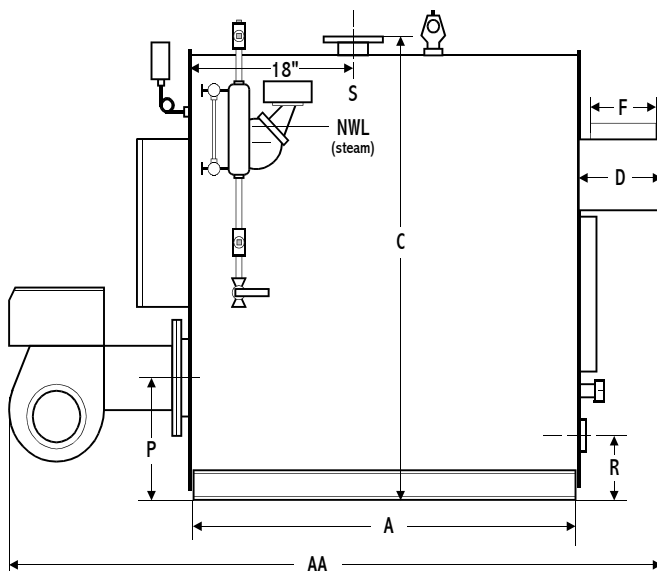
# L.E.S. Series HF3 "Scotch Box" Boilers

3-Pass Firetube • 15# Steam / 30# Water • 83% Efficiency • 4 sq.ft. Fireside Heating Surface per BHP

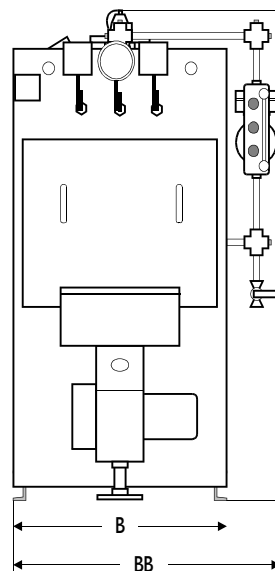
## Ratings/Data/Dimensions

Model: HF3-	15	20	25	30	40	50	60	70	80	90	105
<b>Input</b>											
Gas (MB/CF) CFH	600	800	1000	1200	1610	2010	2410	2820	3220	3620	4240
Oil (140MB/Gal) GPH	4.3	5.7	7.1	8.6	11.5	14.4	17.2	20.1	23.0	25.9	30.3
<b>Output</b>											
MBH	500	670	835	1000	1340	1675	2010	2345	2680	3015	3520
Boiler Horsepower	15	20	25	30	40	50	60	70	80	90	105
Gas Burner Motor HP	.25	.33	.33	.33	.5	.75	1.0	1.0	2.0	3.0	3.0
Oil Burner Motor HP	.33	.33	.5	.5	.75	1.0	1.5	1.5	2.0	3.0	5.0
<b>SQ.FT. Heating Surface</b>											
Primary	16.7	20.8	20.6	24.7	28.7	35.6	40.4	46.6	46.5	51.9	57.3
Total Fireside	62	86	102	125	163	200	242	286	325	359	424
Total Waterside	68	94	111	137	180	221	267	316	360	397	470
<b>Boiler Data</b>											
Furnace Vol. (CU.FT.)	4.5	6.1	6.1	7.7	9.3	13.6	15.8	20.3	20.3	23.2	26.0
Water Cap. (Gal; NWL)	89	116	111	138	160	206	237	282	270	312	344
Water Cap. (Gal; Full)	112	146	141	176	206	275	318	363	350	404	447
Dry Weight (LBS)	1350	1650	1725	2075	2425	3000	3450	3925	4075	4500	4975
<b>Dimensions in Inches</b>											
<b>A</b> Skid Length	29	39	39	49	59	59	68	68	68	78	88
<b>AA</b> Overall Length	64	76	76	86	96	112	121	123	128	138	154
<b>B</b> Width	28	28	28	28	28	34	34	34	34	34	34
<b>BB</b> Trimmed Width (Std)	40	40	40	40	40	46	46	46	46	46	46
<b>C</b> Height	64	64	64	64	64	72	72	78	78	78	78
<b>CC</b> Trimmed Height	72	72	72	72	72	79	79	86	86	86	86
<b>D</b> Rear Smokebox Depth	10	12	12	12	12	14	14	16	16	16	16
<b>F</b> Flue Connection Size	6	8	8	8	8	10	10	12	12	12	12
Flue Connection Height	50	50	50	50	50	54	54	61	61	61	61
<b>P</b> Burner Port Height	18	18	18	18	18	20	20	20	20	20	20
Burner Port ID	9¼	9¼	9¼	9¼	9¼	12¼	12¼	14½	14½	14½	14½
<b>R</b> Return Size (NPT)	2	2	3	3	3	4	4	4	4	4	4
Return Height	8½	8½	8½	8½	8½	10½	10½	10½	10½	10½	10½
<b>S</b> Supply Size (*=Flange)	3	3	3	4*	4*	6*	6*	6*	6*	6*	8*
Supply Height	64	64	64	64	64	72	72	78	78	78	78

Side View



Front View



Rear View

