

Leader Iron Works

General Offices: 3010 N. Jasper St., Decatur, Illinois

NEW YORK
21 E. 40th Street

CHICAGO
451 W. Erie Street

ST. LOUIS
2091 Ry. Exchange Building



KOOLSTACK BOILERS

for

OIL BURNING, COKE, and ANTHRACITE COAL

Low Stack Temperature. Leader Koolstack Boilers operate with stack temperatures of less than 300 deg. Fahr. Economy is the result.

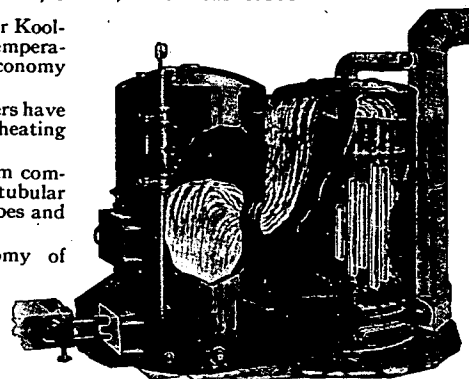
Heating Surface. Koolstack Boilers have far more than the usual amount of heating surface.

Fire Travel. Flue gases pass from combustion chamber to the top of rear tubular section, then down through the tubes and out at the bottom.

Economy. The unusual economy of Leader Koolstack Boilers is due to the fact the flue gases are held in the boiler until all of the effective heat has been released.

Automatic Damper. Temporary draft acceleration at the initial firing period is provided by an automatic damper which by-passes the products of combustion direct to the chimney. This damper closes automatically when the stack temperature reaches 250 deg.

For Oil, Coke, and Anthracite Coal. While this is primarily a boiler for Oil Burning, it shows remarkable performance records on Coke and Anthracite Coal. It is not intended for use with soft coal.



Koolstack Boiler Specifications (A.S.M.E. Code)

STEAM HEATING

Type	Net Rating Sq. Ft. Note †	Approximate Shipping Weight Lb.	Grate Diameter In.	Width Overall In.	Height Overall In.	Length Overall In.	Size Smoke Outlet In.	Size Flow Opening In.	Size Return Opening In.	Height of Water Level In.
OS-2848	800	2000	23 1/2	36 1/2	52 3/4	68 1/2	10	3	3	37 1/2
OS-2854	1000	2200	23 1/2	36 1/2	59 1/2	68 1/2	10	3 1/2	3 1/2	42 1/2
OS-2860	1200	2400	23 1/2	36 1/2	65 1/2	68 1/2	10	4	4	46 1/2
OS-3954	1600	3500	33 1/2	46	61	90	12	4 1/2	4 1/2	42 1/2
OS-3963	2100	3900	33 1/2	46	70 1/4	90	12	4 1/2	4 1/2	48 1/2
OS-3972	2600	4300	33 1/2	46	79 1/4	90	12	5	5	56

HOT WATER HEATING

OW-2848	1280	2000	23 1/2	36 1/2	52 3/4	68 1/2	10	3	3	
OW-2854	1600	2200	23 1/2	36 1/2	59 1/2	68 1/2	10	3 1/2	3 1/2	
OW-2860	1920	2400	23 1/2	36 1/2	65 1/2	68 1/2	10	4	4	
OW-3954	2880	3500	33 1/2	46	61	90	12	4 1/2	4 1/2	
OW-3963	3520	3900	33 1/2	46	70 1/4	90	12	4 1/2	4 1/2	
OW-3972	4160	4300	33 1/2	46	79 1/4	90	12	5	5	

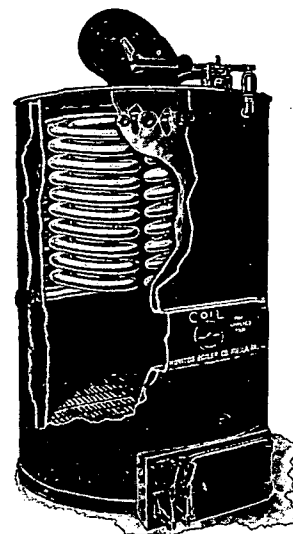
†All of these ratings are based on actual boiler capacity at outlet.

Monitor Boiler Company

1505 Race Street

Philadelphia, Pa.

COIL STEEL HEATING BOILERS AND WATER HEATERS OIL OR COAL BURNING



It is the amount of heating surface, provided it is properly placed in relation to the fire, that determines the amount of oil or coal used to heat a building. The amount of heating surface per unit of rating in the Coil Boiler is exceptionally high and is tremendously effective because it is within view of the flame, hence, capable of absorbing the radiant heat.

NET RATINGS

The Coil Water Tube Steel Boiler is rated on the amount of direct cast-iron radiation the boiler will carry. **EXAMPLE:** A boiler rated at 800 ft. will carry 800 ft. of direct cast-iron radiation. A sufficient reserve has been figured in the rating to take care of piping, except where unusual conditions exist, such as exposed piping, insufficient radiation, etc., where allowance must of course be made.

DIMENSIONS AND RATINGS

COIL WATER TUBE STEEL HEATING BOILERS						COIL STEEL WATER HEATERS			
Number of Boiler	Net Steam Rating	Net Water Rating	Grate Area Sq. Ft.	Tappings No. and Size	Smoke Pipe	Number of Heater	Capacity Cal. per Hour	Smoke Pipe	Tappings No. and Size
S&W 1181	325	525	1.8	4-2 1/2	7"	10	400	7"	4-2 1/2
S&W 1201	450	750	2.2	4-2 1/2	7"	12	500	7"	4-2 1/2
S&W 1231	550	900	2.9	4-3	8"	14	750	8"	4-3
S&W 1251	675	1100	3.4	4-3	8"	16	950	8"	4-3
S&W 1281	800	1325	4.3	4-3	10"	18	1150	10"	4-3
S&W 1282	950	1575	4.3	4-3	10"	20	1450	10"	4-4
S&W 1311	1150	1900	5.3	4-4	10"	44	1650	10"	4-4
S&W 1312	1400	2325	5.3	4-4	10"	48	2050	12"	4-4
S&W 1351	1600	2600	6.7	4-4	12"				
S&W 1352	1950	3250	6.7	4-4	12"				
S&W 1401	2350	3800	8.8	4-4	14"				
S&W 1402	3000	5000	8.8	4-4	14"				

Above ratings based on raising temperature of water 50 deg. per gallon per hour.
Working pressure 125 lb.

All Boilers and Heaters built in accordance with the A.S.M.E. Code.