

Leader Boiler and Heater Company

310 S. Michigan Avenue, Chicago, Ill.

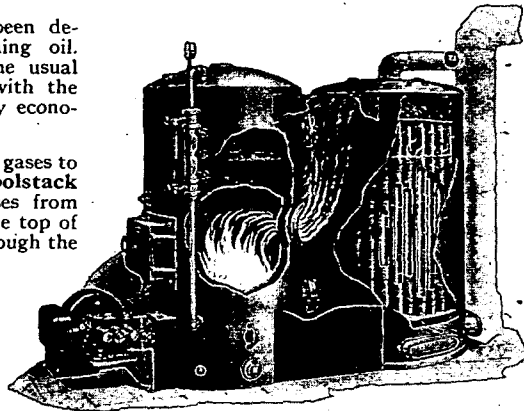
"THE KOOLSTACK LINE"



Steel Heating Boilers for Oil, Gas, Coke.
Gas Fired Automatic Steam Boilers and Water Heaters.
Oil Fired Automatic Heating Units.
Economizers for Oil Burners, Storage Water Heaters.

Koolstack Boilers have been designed particularly for burning oil. They have far more than the usual amount of heating surface, with the result that they are extremely economical for oil burning.

In Place of allowing the hot gases to escape up the chimney, Koolstack construction passes these gases from the combustion chamber to the top of the rear section then down through the tubes and out at the bottom. This construction absorbs all the heat that is practical, allowing only such an amount to go up the chimney (usually around 300 deg. Fahr.) as to insure proper draft conditions.



An Automatic Damper provides temporary draft acceleration at the initial firing period by automatically by-passing the products of combustion direct to the chimney. This damper closes when the stack temperature reaches 250 deg. Fahr.

Koolstack Boilers are now available for use with any good forced draft oil burner in sizes shown in table below.

Complete Units. Koolstack Oil Fired Automatic Heat Machines consisting of oil burner and boiler built into one compact unit will be available January 1, 1930. Capacities of these units will range from 500 to 3,000 sq. ft. of steam. They are designed and built to give the highest efficiency obtainable in domestic heating equipment for burning oil. Write for Bulletin giving complete details.

Koolstack Boiler Ratings and Dimensions

Size	Steam		Water		Approx. Shipping Weight Lbs.	Grate Diam. In.	Width Overall In.	Height Overall In.	Length Overall In.	Size Smoke Outlet In.	Size Flow Opening In.	Size Return Opening In.
	Net Rating Sq. Ft.	Height of Water Level In.	Net Rating Sq. Ft.	Height of Water Level In.								
2848	800	37 1/2	1280	2000	23 1/2	36 1/2	52 1/2	68 1/2	10	3	3	3
2854	1000	42 1/2	1600	2200	23 1/2	36 1/2	59 1/2	68 1/2	10	3 1/2	3 1/2	3 1/2
2860	1200	46 1/2	1920	2400	23 1/2	36 1/2	65 1/2	68 1/2	10	4	4	4
3954	1600	42 1/2	2880	3500	33 1/2	46	61	90	12	4 1/2	4 1/2	4 1/2
3963	2100	48 1/2	3520	3900	33 1/2	46	70 1/4	90	12	4 1/2	4 1/2	4 1/2
3972	2600	56	4160	4300	33 1/2	46	79 3/4	90	12	5	5	5

Koolstack Boilers are built in accordance with A. S. M. E. low pressure heating boiler code. All ratings are based on actual boiler capacity at outlet.

Molby Boiler Company Incorporated

Subsidiary of The Universal Pipe and Radiator Company

Molby Magazine-Feed Downdraft-Crossdraft Boilers

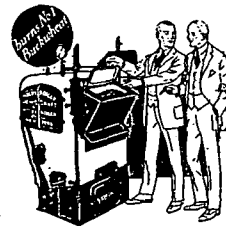
for burning No. 1 Buckwheat Anthracite

GRAYBAR BUILDING, LEXINGTON AVENUE AT 43rd STREET, NEW YORK

PHILADELPHIA BRANCH
2401 Chestnut Street

LANSDALE, PA. BRANCH
50 Central Avenue

CHICAGO BRANCH
332 S. Michigan Avenue



21 Sizes—for Homes, Apartment Houses and other large Buildings.

The Molby heating boiler pays for itself. It is self-feeding and gives a steady, even heat over long periods, burning No. 1 Buckwheat at half the cost of large sizes of anthracite. Also burns free-burning bituminous. Also coke. Magazines need coaling only once a day. Built throughout in accordance with codes of A. S. M. E. and A. S. H. & V. E.

Tested and Certified by Outside and Unbiased Engineers of National Reputation.

Tests have been made, not alone by our own engineers, but in the nationally-known Frost Research Laboratory, at Norristown, Pa.—and these laboratory tests are certified to by Mr. Robinson V. Frost, C. E., Member A. S. M. E. and A. S. H. & V. E.

For the benefit of engineers, architect and contractor we will gladly furnish charts in fullest detail, as submitted by the Frost Research Laboratory, showing grate areas, ratings, boiler performances and efficiencies. Ask nearest office for these charts.

SIZES, CAPACITIES, DIMENSIONS, ETC.

STEAM						STEAM AND WATER										WATER			
Number	Water Line	Return	Commercial Rating Steam	Advised Load Steam	Height	Size—Inches					Approximate Shipping Weight	Number	Return	Commercial Rating Water	Advised Load Water	Number	Return	Commercial Rating Water	Advised Load Water
						Width	Length	Smoke Pipe	Outlets	Chimney Flue									
S-1-4	43	2-3	375	275	54	41	35 1/2	10	2-3	8x12	1890	W-1-4	2-3	600	450				
S-1-5	43	2-3	507	375	54	41	42	10	2-3	8x12	2230	W-1-5	2-3	813	615				
S-1-6	43	2-3	646	475	54	41	48 1/2	10	2-3	8x12	2580	W-1-6	2-3	1035	780				
S-1-7	43	2-3	779	575	54	41	55	10	2-3	12x12	2950	W-1-7	2-3	1247	945				
S-1-8	43	2-3	908	675	54	41	61 1/2	10	2-3	12x12	3300	W-1-8	2-3	1450	1110				
S-2-5	48	2-4	1158	839	62 1/2	61	44	14	2-3	12x12	3820	W-2-5	2-4	1852	1343				
S-2-6	48	2-4	1466	1087	62 1/2	61	50 3/4	14	2-3	12x12	4290	W-2-6	2-4	2356	1739				
S-2-7	48	2-4	1785	1334	62 1/2	61	56 3/4	14	2-3	12x16	4690	W-2-7	2-4	2856	2135				
S-2-8	48	2-4	2106	1585	62 1/2	61	63 1/4	14	3-3	12x16	5100	W-2-8	2-4	3370	2537				
S-2-9	48	2-4	2431	1852	62 1/2	61	69 1/2	14	3-3	16x16	5510	W-2-9	2-4	3890	2964				
S-2-10	48	2-4	2759	2138	62 1/2	61	75 1/2	14	3-3	16x16	5930	W-2-10	2-4	4414	3422				
S-2-11	48	2-4	3093	2405	62 1/2	61	82	14	4-3	16x16	6350	W-2-11	2-4	4934	3969				
S-3-6	61	2-5	1817	1547	80	75 1/2	59	14	2-4	16x16	7150	W-3-6	2-5	2907	2475				
S-3-7	61	3-5	2470	1971	80	75 1/2	67 1/2	16	3-4	16x16	8310	W-3-7	3-5	3952	3155				
S-3-8	61	3-5	2785	2434	80	75 1/2	76	16	3-4	16x20	9500	W-3-8	3-5	4456	3895				
S-3-9	61	3-5	3312	2942	80	75 1/2	84 1/2	18	3-4	16x20	10650	W-3-9	3-5	5300	4700				
S-3-10	61	3-5	3898	3338	80	75 1/2	93	18	4-4	20x20	11840	W-3-10	3-5	6236	5341				
S-3-11	61	3-5	4351	3730	80	75 1/2	101 1/2	18	4-4	20x20	13000	W-3-11	3-5	6962	5969				
S-3-12	61	3-5	4769	4081	80	75 1/2	110	18	4-4	20x24	14150	W-3-12	3-5	7631	6530				
S-3-13	61	3-5	5226	4454	80	75 1/2	118 1/2	18	4-4	20x24	15320	W-3-13	3-5	8361	7126				
S-3-14	61	3-5	5660	4840	80	75 1/2	127	18	4-4	20x24	16590	W-3-14	3-5	9057	7740				

Note.—In ordering 26-in. boilers state whether you wish same fitted up with right hand or left hand end to the chimney. length includes Smoke Box.

Equipment.—Each steam boiler is equipped with a full set steam trimmings, a pressure regulator and a complete set of firing and cleaning tools. Instruction books for erecting and operating accompany each boiler. Each water boiler is equipped with a thermometer, a water temperature regulator and a complete set of firing and cleaning tools. Instruction books for erecting and operating accompany each boiler.

*When domestic hot water supply tank is to be heated by heating boiler add to actual load 2 sq. ft. for each gallon of tank capacity on a steam job, and 3 sq. ft. for each gallon on a hot water job.