

Gar-Wood Engineering Company

4196 Bellevue Avenue

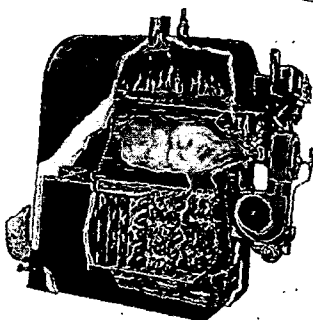
Detroit, Michigan

Gar-Wood Balanced Heating Unit

A complete unit, shipped ready to uncrate and install. Requires only few hours to make necessary pipe connections and put burner in action. Completely automatic. With minor changes can be adapted to burn either oil or gas with equal efficiency. Made of Armco Iron, electrically welded into one solid unit.

Uses counter-flow principle of heat transfer, in which water and hot gases flow in opposite directions.

Thoroughly tested and stamped with approval of the American Society of Mechanical Engineers.



DIMENSIONS, WEIGHTS AND RATINGS FOR STEAM, HOT WATER, AND VACUUM HEATING SYSTEMS

Dimensions and Pipe Sizes	Model Numbers			
	No. 500	No. 800	No. 1200	No. 1600
L—Length without Insulation (Length with Insulation).....	18 1/4 inches	28 3/4 inches	39 1/4 inches	49 3/4 inches
W—Width without Insulation (Width with Insulation).....	20 1/4 inches	30 3/4 inches	41 1/4 inches	51 1/4 inches
H—Height without Insulation (Height with Insulation).....	27 inches	27 inches	27 inches	27 inches
O—Overall Length.....	58 1/2 inches	58 1/2 inches	58 1/2 inches	58 1/2 inches
D—Door Clearance from Boiler Center.....	59 1/2 inches	59 1/2 inches	59 1/2 inches	59 1/2 inches
N—Size of Steam Outlet.....	30 inches	63 1/4 inches	73 1/4 inches	84 1/4 inches
F—Oil Line (Copper Tubing).....	4 inches	4 inches	4 inches	4 inches
P—Stack Diameter.....	1/2 inches	1/2 inches	1/2 inches	1/2 inches
V—Rear Vent (Connect only for Gas Firing).....	10 inches	10 inches	10 inches	10 inches
C—Water Heater Adapter Opening.....	4 inches	4 inches	4 inches	4 inches
R—Water Return.....	2 1/2 inches	2 1/2 inches	2 1/2 inches	2 1/2 inches
	(Two) 2 1/2 inches	(Two) 2 1/2 inches	(Two) 2 1/2 inches	(Two) 2 1/2 inches

*Indicates dimension plus thickness of insulation.

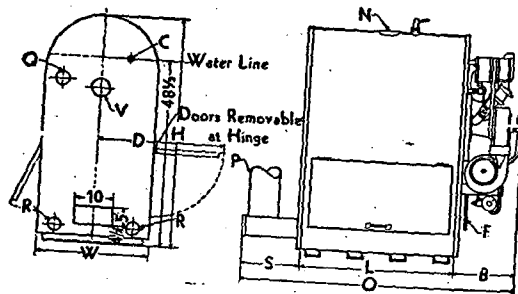
CAPACITIES, WEIGHTS, AND RATINGS

Total Capacity (Steam) Normal Oil Firing.....	sq. ft.	780	1050	1600	2100
Net Radiation Load (Steam).....	sq. ft.	500	800	1200	1600
Water Capacity.....	gal.	800	1200	1800	2400
Weight, (Boiler Only).....	lb.	63	80	104	128
Weight, Burner.....	lb.	590	1366	1832	2175
Weight, Boiler Jacket.....	lb.	275	275	275	275
Exposed Heating Surface.....	sq. ft.	155	175	200	225
Output, per hour.....	B.t.u.	78	105	152	199
	B.t.u.	187,000	262,320	409,180	545,570

Capacity based on 850 B.T.U. per sq. ft. steam radiation. Hot Water capacity 1.5 s steam capacity. Net ratings allow for normal losses in risers and returns.

GAR-WOOD BUILT-IN HOT WATER HEATERS

Tapped for either internal or external domestic hot water heaters. A Built-in Hot Water Heater that will provide constant supply of warm water at very low cost can be supplied. Five sizes with the Aquastat temperature control; 40 g. p. hr.; 60 g. p. hr.; 80 g. p. hr.; 120 g. p. hr. and 180 g. p. hr.



Leader Boiler and Heater Company

176 West Adams Street, Chicago, Illinois

"THE KOOLSTACK LINE"

Oil and Gas Fired Domestic Heating Boilers
Oil and Gas Fired Industrial Boilers
Oil and Gas Fired Warm Air Furnaces
Economizers for Oil Burners



The Koolstack System of Heating comprises a combination of principles, and arrangement of design particularly adaptable to intermittent automatic firing with gas or oil.

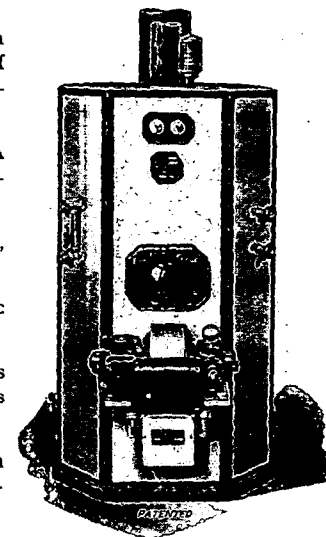
The Boiler and Burner are built for each other—A Complete Unit—Very Compact—suitable for industrial as well as domestic heating.

Bulletin OFD—oil fired domestic boiler for steam, vapor or hot water, also process work.

Bulletin GFI—gas fired industrial, also domestic heating.

Boilers are built to A.S.M.E. specifications. Burners are listed as Std. and labeled by Underwriters Laboratories.

Bulletins covering gas and oil burning warm air furnaces, built of steel, one piece, leak-proof, now on the press.



SPECIFICATIONS LEADER KOOLSTACK OIL-HEAT SYSTEM

STEAM AND HOT WATER HEATING

Type No.	Net Rating Sq. Ft. Note*	Approx. Ship. Wt. Complete Assem.	Width Boiler Less Casing, Inches	Width Over All With Casing Note †	Height Over All Inches	Length Over All Inches	Size Smoke Outlet Inches	Size & No. Flow Openings Inches	Size & No. Return Openings Inches	Height Water Level Inches
S-2815	750	1925	28	33 1/8	58 1/2	64 1/2	9	one 4"	two 3"	41 1/2
S-2818	1100	2580	28	33 1/8	58 1/2	74 1/2	11	one 5"	two 4"	41 1/2
W-2815	1200	1925	28	33 1/8	58 1/2	64 1/2	9	one 4"	two 3"	Hot Water Boiler
W-2818	1700	2580	28	33 1/8	58 1/2	74 1/2	11	one 5"	two 4"	Hot Water Boiler

Crating increases over-all measurements by 4" on the width, 12" on the length, and 8 1/2" on the height. Units are crated complete, including burner in position. Knocked-down units are crated with burner in separate crate; this shortens crate length 18".

Both the No. 2815 and 2818 Units will pass through a 28" door opening with casing removed.

*NOTE.—To determine the size of boiler needed, add only the usual percentage for pipe losses.

†NOTE.—The over-all measurements refer to boiler set up, ready for use.