

INTERNATIONAL HEATER COMPANY

Makers of Heating Apparatus

Utica, N. Y.

NEW YORK CHICAGO CLEVELAND NASHUA, N. H.
Broadway and 57th St. 1933-35 Wentworth Ave. 1441 Davenport Ave., N.E. 110 Chestnut St.

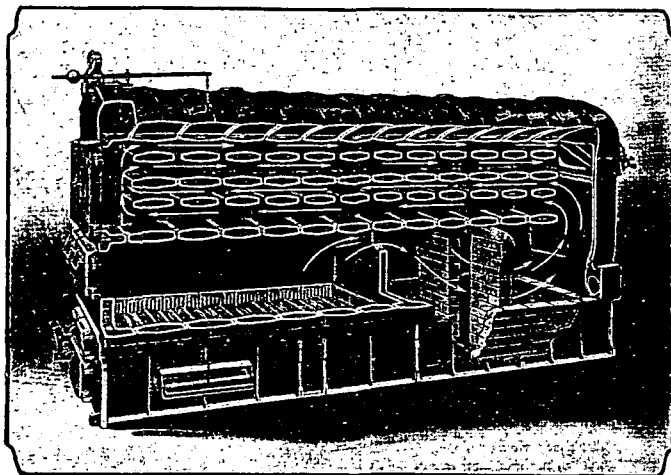
ECONOMY BOILERS

On the following pages we present condensed data on the INTERNATIONAL ECONOMY BOILERS, Steam and Water.

Both the Regular and the Smokeless types have the following distinctive features in common: *Conservative ratings* from actual tests according to the AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS Boiler Code 1919; the evaporative power and efficiency are exceptionally high; a *long fire travel* and all heating surface *below* the water line; a *low steady* water line with water gauge tapped directly into the section; *dry steam guaranteed with no header and only one main outlet from boiler*; grate bar connections of sectional boilers are *outside* the ashpit; all heating surface easily *cleaned from front* of boiler through large flue doors.

The temperature of the gases in the first pass or lower flues is at least 200 degrees higher than in the fire box for an hour or two after firing due to the special mixing or carburetor feature of all Regular type boilers. In the secondary combustion chamber of the Smokeless type, the temperature at times exceeds 2000 deg. Fahr. which means high efficiency due to proper combustion conditions as regards, time, temperature and mixture.

The INTERNATIONAL ECONOMY SMOKELESS BOILER is an up draft boiler designed to burn any fuel used for heating purposes; as soft coal, hard coal including buckwheat on large installations, coke, oil and gas. It is built on the *Kent Wing Wall principle* so that the smokeless feature is entirely outside of the fire box and practically independent of the fireman. It has no special grates or arches in the fire box, holds several hours' supply of coal and requires the least possible attention. Auxiliary air is always under control—an important feature that promotes fuel economy.



Cut-Away View of No. 140-47 Economy Smokeless Boiler

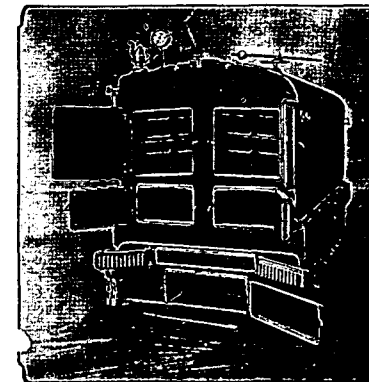
INTERNATIONAL HEATER COMPANY

SECTIONAL MEASUREMENTS

Regular and Smokeless Steam Sizes

Series	Height of Water Line, Inches	Height to Supply Outlet, Inches	Add to Height for Trimming, Feet	Length of Smoke Box, Inches	Width of Boiler, Including Trimmings, Inches	Height from Floor to Center of Return Tappings, Inches	Height of Fire Box to Crown, Inches	Height Grate to Middle of Feed Door, Inches	Size of Smoke Flue, Inches	Size of Feed Doors, Inches
*19	44	53	9	6	35	18	22	16	9	9x14
26	47	57	11	7 1/2	40	19	22	16	10	9x17
31	50	62 1/2	11	7 3/4	45	19 1/2	24	18	12	9x17
38	54	68	11	8 1/4	52	20	26	18	16	11x21
47	59	73	12	8 3/4	61	21 1/2	26	18	20	2-10x17

*19 in. series for hard coal only.



47 in. Series Economy Smokeless Boiler Showing Access for Cleaning

Ratings and Dimensions

ECONOMY SMOKELESS BOILERS

Number	Rating	Coal Capacity Pounds	Evaporative Power	Dimensions Overall Inches	Tappings		Number	Rating	Coal Capacity Pounds	Evaporative Power	Dimensions Overall Inches	Tappings	
					Supply	Return						Supply	Return
80-26	2200	375	9.3	40x69	3-3/4"	2-3/4"	110-38	5800	1135	9.75	52x93	3-5"	2-5"
81-26	2400	425	9.3	40x74	3-3/4"	2-3/4"	111-38	6100	1225	9.75	52x98	3-5"	2-5"
90-26	2500	460	9.3	40x77	3-3/4"	2-3/4"	120-38	6350	1285	9.75	52x101	3-5"	2-5"
91-26	2700	510	9.3	40x82	3-3/4"	2-3/4"	130-38	6900	1285	9.75	52x109	3-5"	2-5"
100-26	2800	545	9.3	40x85	3-3/4"	2-3/4"	140-38	7450	1285	9.75	52x117	3-5"	2-5"
110-26	3100	545	9.3	40x93	3-3/4"	2-3/4"	150-38	8000	1435	9.75	52x125	3-5"	2-5"
							160-38	8550	1435	9.75	52x133	3-5"	2-5"
							170-38	9100	1435	9.75	52x141	3-5"	2-5"
80-31	2850	480	9.3	45x69	3-4"	2-4"	90-47	8300	1250	10	61x93	3-6"	2-6"
81-31	3100	545	9.3	45x74	3-4"	2-4"	100-47	9300	1500	10	61x103	3-6"	2-6"
90-31	3250	590	9.3	45x77	3-4"	2-4"	110-47	10300	1500	10	61x113	3-6"	2-6"
91-31	3500	655	9.3	45x82	3-4"	2-4"	120-47	11300	1500	10	61x123	4-6"	2-6"
100-31	3650	700	9.3	45x85	3-4"	2-4"	130-47	12300	1750	10	61x133	4-6"	2-6"
101-31	3900	765	9.3	45x90	3-4"	2-4"	140-47	13300	1750	10	61x143	4-6"	2-6"
110-31	4050	810	9.3	45x93	3-4"	2-4"	150-47	14300	1750	10	61x153	4-6"	2-6"
120-31	4450	810	9.3	45x101	3-4"	2-4"	160-47	15300	1750	10	61x163	4-6"	2-6"
130-31	4850	920	9.3	45x109	3-4"	2-4"	170-47	16300	1750	10	61x173	4-6"	2-6"
140-31	5250	920	9.3	45x117	3-4"	2-4"	180-47	17300	2000	10	61x183	4-6"	2-6"
150-31	5650	920	9.3	45x125	3-4"	2-4"	190-47	18300	2000	10	61x193	4-6"	2-6"
							200-47	19300	2000	10	61x203	4-6"	2-6"
90-38	4700	835	9.75	52x77	3-5"	2-5"	210-47	20300	2000	10	61x213	4-6"	2-6"
91-38	5000	925	9.75	52x82	3-5"	2-5"							
100-38	5250	985	9.75	52x85	3-5"	2-5"							
101-38	5550	1075	9.75	52x90	3-5"	2-5"							