

INTERNATIONAL HEATER COMPANY

Manufacturers of Heating Apparatus
Utica, N. Y.

CHICAGO 1933-35 Wentworth Ave. NASHUA, N. H. 369 Main St. CLEVELAND, O. 1441 Davenport Ave., N.E.
BROADWAY AND 57th St.

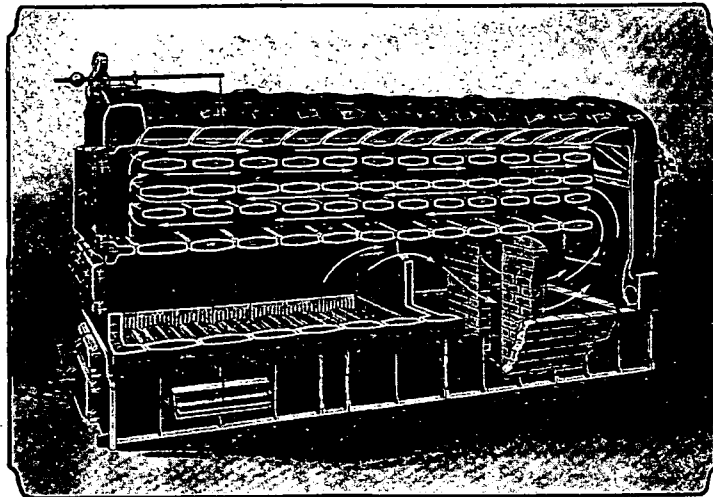
ECONOMY BOILERS

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; 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 two hundred 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. Excess air is always under control—an important feature that promotes fuel economy.



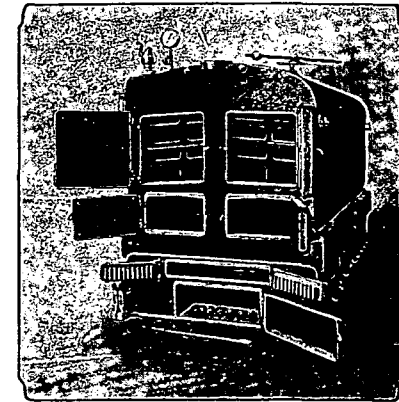
Cut-away View of No. 140-47 Economy Smokeless Boiler

INTERNATIONAL HEATER COMPANY

SECTIONAL MEASUREMENTS Regular and Smokeless Steam Sizes

Series	Height of Water Line	Height to Supply Outlets	Add to Height for Trimmings	Length of Smoke Box	Width of Boiler, Including Trimmings	Height from floor to center of Return Tappings	Height of Fire Box to Crown	Height Grate to Middle of Feed Door	Size of Smoke Flue	Size of Feed Doors
*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 1/2"	45"	19 1/2"	24"	18"	12"	9x17
38	54"	68"	11"	8 1/2"	52"	20"	26"	18"	16"	11x21
47	59"	73"	12"	8 3/4"	61"	21 1/2"	26"	18"	20"	2-10x17

*19" Series for hard coal only.



47" Series Economy Smokeless Boiler
Showing Access for Cleaning

Ratings and Dimensions

ECONOMY SMOKELESS BOILERS

Number	Rating	Coal Capacity Lbs.	Evap. Power	Dimensions Overall	Tappings	
					Supply	Return
80-26	2200	375	9.3	40x 69"	3-3/4"	2-3/4"
81-26	2400	425	9.3	40x 74"	3-3/4"	2-3/4"
90-26	2500	460	9.3	40x 77"	3-3/4"	2-3/4"
91-26	2700	510	9.3	40x 82"	3-3/4"	2-3/4"
100-26	2800	545	9.3	40x 85"	3-3/4"	2-3/4"
110-26	3100	545	9.3	40x 93"	3-3/4"	2-3/4"
80-31	2850	480	9.3	45x 69"	3-4"	2-4"
81-31	3100	545	9.3	45x 74"	3-4"	2-4"
90-31	3250	590	9.3	45x 77"	3-4"	2-4"
91-31	3500	655	9.3	45x 82"	3-4"	2-4"
100-31	3650	700	9.3	45x 85"	3-4"	2-4"
101-31	3900	765	9.3	45x 90"	3-4"	2-4"
110-31	4050	810	9.3	45x 93"	3-4"	2-4"
120-31	4450	810	9.3	45x 101"	3-4"	2-4"
130-31	4850	920	9.3	45x 109"	3-4"	2-4"
140-31	5250	920	9.3	45x 117"	3-4"	2-4"
150-31	5650	920	9.3	45x 125"	3-4"	2-4"
90-38	4700	835	9.75	52x 77"	3-5"	2-5"
91-38	5000	925	9.75	52x 82"	3-5"	2-5"
100-38	5250	985	9.75	52x 85"	3-5"	2-5"
101-38	5550	1075	9.75	52x 90"	3-5"	2-5"
110-38	5800	1135	9.75	52x 93"	3-5"	2-5"
111-38	6100	1225	9.75	52x 98"	3-5"	2-5"
120-38	6350	1285	9.75	52x 101"	3-5"	2-5"
130-38	6900	1285	9.75	52x 109"	3-5"	2-5"
140-38	7450	1285	9.75	52x 117"	3-5"	2-5"
150-38	8000	1435	9.75	52x 125"	3-5"	2-5"
160-38	8550	1435	9.75	52x 133"	3-5"	2-5"
170-38	9100	1435	9.75	52x 141"	3-5"	2-5"
90-47	8300	1250	10.	61x 93"	3-6"	2-6"
100-47	9300	1500	10.	61x 103"	3-6"	2-6"
110-47	10300	1500	10.	61x 113"	3-6"	2-6"
120-47	11300	1500	10.	61x 123"	4-6"	4-6"
130-47	12300	1750	10.	61x 133"	4-6"	4-6"
140-47	13300	1750	10.	61x 143"	4-6"	4-6"
150-47	14300	1750	10.	61x 153"	4-6"	4-6"
160-47	15300	1750	10.	61x 163"	4-6"	4-6"
170-47	16300	1750	10.	61x 173"	4-6"	4-6"
180-47	17300	2000	10.	61x 183"	4-6"	4-6"
190-47	18300	2000	10.	61x 193"	4-6"	4-6"
200-47	19300	2000	10.	61x 203"	4-6"	4-6"
210-47	20300	2000	10.	61x 213"	4-6"	4-6"