

INTERNATIONAL HEATER COMPANY

New York 641 West 59th St.
 Chicago 1933-35 Wentworth Ave.
 Utica, N. Y.
 CLEVELAND 1419-1443 Davenport Ave., N.E.
 DETROIT 1114 Dime Savings Bank Bldg.
 PHILADELPHIA 1613 Race St.
 NABRAU, N. H. 110 Chestnut St.

GUARANTEED RADIATION LOADS

International Economy Boilers for Steam or Hot Water low-pressure heating are made in three types, viz.: Round, Regular Sectional, and in both Mixing Arch and Wing-Wall patterns of Smokeless Boilers.

The Regular and Smokeless Sectional patterns have many characteristics in common. INTERNATIONAL Guaranteed Radiation Loads make possible the immediate and accurate selection of the proper boiler size for any job. All guess work is eliminated. Proper allowance has already been made to cover piping mains and risers. These Guaranteed Radiation Loads have been determined from tests in our Research Department. The INTERNATIONAL HEATER COMPANY supports these Guaranteed Radiation Loads absolutely. The guarantee under which INTERNATIONAL Economy Steam and Water Boilers are rated, reads:

"We guarantee INTERNATIONAL ECONOMY steam and water boilers to maintain 2 lb. steam pressure or 180 deg. temperature at the boiler, on the guaranteed amount of direct cast iron radiation shown for each size. Additional loads such as domestic hot water supply, direct-indirect and indirect radiators, blast coils, or rooms to be maintained below 70 deg. temperature, must be reduced to and included in equivalent square feet of direct cast iron radiation. This guarantee covers two distinct ratings, with coal of 11,500 B.t.u. and coal of 13,000 B.t.u. when the chimney provides sufficient draft to properly burn the fuel."

Both the Regular and the Smokeless types have the following distinctive features:

A long fire travel and all heating surface below the water line; a low steady water line with water gage tapped directly into the section; dry steam guaranteed without a 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.

*RATINGS AND DATA ON ECONOMY SMOKELESS BOILERS! (Steam Pattern)

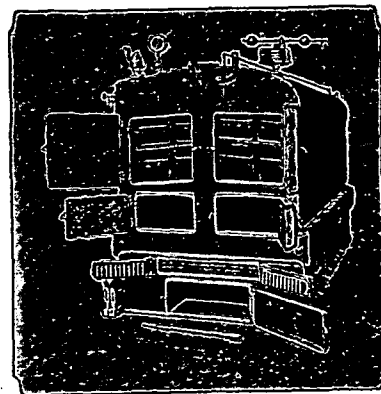
Number	Guaranteed Radiation Loads, Sq. Ft., 13,000 B.t.u. Fuel	Guaranteed Radiation Loads, Sq. Ft., 11,500 B.t.u. Fuel	Grate Area Sq. Ft.	Coal Capacity Lbs.	Number	Guaranteed Radiation Loads, Sq. Ft., 13,000 B.t.u. Fuel	Guaranteed Radiation Loads, Sq. Ft., 11,500 B.t.u. Fuel	Grate Area Sq. Ft.	Coal Capacity Lbs.
60-S-22	1013	837	6.1	460	140-S-34	5680	4694	17.0	1435
70-S-22	1220	1008	7.3	545	150-S-34	6116	5055	17.0	1435
80-S-22	1431	1183	8.5	630	61-S-47	4073	3366	16.3	1250
90-S-22	1638	1354	9.7	715	71-S-47	4841	4000	19.5	1500
100-S-22	1845	1525	11.0	800	81-S-47	5610	4636	22.8	1750
60-S-28	1305	1079	7.7	590	91-S-47	6378	5271	26.1	2000
70-S-28	1580	1306	9.3	705	100-S-47	7146	5906	19.5	1500
80-S-28	1855	1533	10.8	820	110-S-47	7915	6541	19.5	1500
90-S-28	2142	1770	12.4	935	120-S-47	8683	7176	19.5	1500
100-S-28	2417	1998	14.0	1050	130-S-47	9450	7811	22.8	1750
70-S-34	2620	2166	11.3	985	140-S-47	10,225	8450	22.8	1750
80-S-34	3058	2527	13.2	1135	150-S-47	11,253	9300	22.8	1750
90-S-34	3404	2888	15.1	1285	160-S-47	12,100	10,000	22.8	1750
100-S-34	3931	3249	17.0	1435	170-S-47	12,959	10,710	26.1	2000
110-S-34	4369	3611	18.2	1585	180-S-47	13,824	11,425	26.1	2000
120-S-34	4806	3972	19.5	1735	190-S-47	14,671	12,125	26.1	2000
130-S-34	5243	4333	20.8	1885	200-S-47	15,500	12,810	26.1	2000
					210-S-47	16,335	13,500	26.1	2000

*Judgment should be used in fitting the boiler to a job. As an example: Do not attach a short boiler to a relatively high stack, or a long boiler to a relatively low stack. Suit the boiler to the job.

**All Economy Smokeless Boilers, 22 in. and 28 in. series, Nos. 70-S-34 to 100-S-34 and Nos. 61-S-47 to 91-S-47, inclusive, and corresponding water sizes, are built with grates extending full length of the boiler and using a mixing arch. All larger sizes are built with bridge and wing walls.

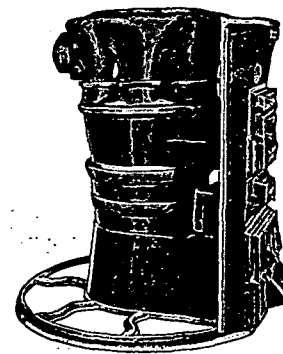
The Economy line of boilers does not require a header. Plug and bush tapings to size of mains.

Send for Catalog 1992-G for sectional data or 1751-G for smokeless data.



47 in. Series Economy Smokeless Boiler

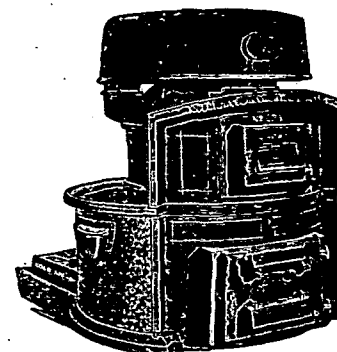
INTERNATIONAL HEATER COMPANY



Carton Furnace



Economy Furnace



Heavy Duty Heater

Other Types for Warming and Ventilating School Houses. Send for Bulletin 1757-G

International Self Cleaning Carton Furnace

The International Self Cleaning Carton Furnace is a sturdy, powerful heater made entirely of heavy cast iron with but five principal castings used in its assembly.

It is very economical in the use of any fuel commonly used for heating purposes because of its self cleaning radiator.

Deep sealed cup joints are provided wherever castings join. The base and lower casing ring are in one piece, feed chute and combustion chamber are cast as a unit, and the ashpit is in one piece. Has patented herringbone triangular grate, large double feed door, and roomy ashpit.

Made in six sizes. Firepot diameters: 20 to 33 in.; casing diameters: 44 to 60 in.

Complete Catalog 1818-G sent on request.

International Economy Blue Front Furnace

This is a moderate priced heater, but one of unusual efficiency. Proportions of heating surface, grate area, and air capacity check with scientific and accepted standards.

The front is finished in a rich blue and surface grinding assures correct fit of contact joints.

The unique Economy radiator is totally different from any other and wide air spaces cause practically 50 per cent of the air to pass toward the center over the hottest part of the fire. This heater has triangular grates, a big humidifier, large roomy ashpit, cold drop wire handles on both tight fitting feed and ashpit doors, and its ashpit, feed chute, and radiator openings extend thru the front so no smoke, gas, or dust can leak into the warm air chamber.

It is made in five sizes for hard or soft coal. Firepot diameters: 18 to 26 in.; casing diameters: 36 to 52 in.

Complete data in Catalog 1752-G.

International Heavy Duty Heater

Especially designed to warm large areas; ample heating surface and large air passing capacity, heavily constructed to withstand the stresses of intermittent heating.

Large radiator is gas tight, large feed door for easy firing, anti-clinker hexagonal grates, two-piece firepots for expansion and contraction, deep gas-tight cup joints, extra deep ashpit.

Heavy Duty Heaters are especially designed for large residences and schools and will fill all requirements at a much lower installation cost than steam or hot water systems. These heaters are built to comply with the most rigid state school regulations and are effectively warming and ventilating schools, large homes, and other large buildings thruout the country.

Made in two sizes for hard or soft coal. Firepot diameters: 28 and 32 in.; casing diameters: 55 and 62 in.

Complete data in Catalog 1978-G.