

HEGGIE-SIMPLEX DIRECT DRAFT STEAM HEATING BOILERS

Number of Boiler Capacity	*300	*301	*302	*303	*304	*305	*306	*307	*308	*309	*310	*311	*312	*313	*314	*315	*316
Heating Surface.....sq. ft.	750	1050	1250	1350	1450	1700	2000	2400	2800	3300	3700	4100	4500	5000	5500	6000	6500
Grate Area.....sq. ft.	50	64	75	86	94	116	141	158	169	220	271	294	317	365	394	423	514
Height of Water Line.....in.	3	4	5	6	6	8	11	10	10	10	12	13	14	14	16	18	18
Height of Boiler.....in.	54	61	61	61	61	66	66	66	62	62	62	62	62	62	62	62	62
Width of Boiler.....in.	24	27	27	27	27	30	30	30	30	34	34	34	34	34	34	34	34
Length of Boiler.....in.	48	52	58	64	64	70	70	70	70	70	70	70	70	70	70	70	70
Width of Firebox.....in.	19	22	22	22	22	25	25	25	25	29	29	29	29	29	29	29	29
Length of Firebox.....in.	26	29	35	41	41	47	47	47	47	53	53	53	53	53	53	53	53
Diameter of Breaching.....in.	10	14	14	14	14	16	16	16	16	18	18	18	18	18	18	18	18
Minimum Height of Stack.....in.	10	12	12	12	12	16	16	16	16	18	18	18	18	18	18	18	18
Diameter of Breaching-2 Boilers.....in.	30	40	40	40	40	50	50	50	50	55	55	55	55	55	55	55	55
Diameter of Stack-2 Boilers.....in.	16	16	16	16	16	20	20	20	20	22	22	22	22	22	22	22	22
Minimum Height of Stack-2 Boilers.....in.	18	18	18	18	18	24	24	24	24	26	26	26	26	26	26	26	26
Size of Steam Outlet.....in.	40	50	50	50	50	60	60	60	60	65	65	65	65	65	65	65	65
Size of Return.....in.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Safety Valves.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Size of Safety Valves.....in.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boiler Covering Required.....sq. ft.	33	41	46	51	51	62	73	78	89	101	116	125	133	141	141	141	141

HEGGIE-SIMPLEX DIRECT DRAFT HOT WATER HEATING BOILERS

Number of Boiler Capacity	*317	*318	*319	*320	*321	*322	*323	*324	*325	*326	*327	*328	*329	*330	*331	*332	*333
Heating Surface.....sq. ft.	7000	7500	8500	10000	11000	12000	13000	14500	15500	16500	18000	20000	22000	25000	28000	31000	34000
Grate Area.....sq. ft.	550	585	680	810	922	985	1047	1166	1238	1310	1403	1565	1911	2110	2309	2481	2695
Height of Water Line.....in.	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Height of Boiler.....in.	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Width of Boiler.....in.	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Length of Boiler.....in.	115	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
Width of Firebox.....in.	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
Length of Firebox.....in.	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Diameter of Breaching.....in.	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Minimum Height of Stack.....in.	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Diameter of Breaching-2 Boilers.....in.	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
Diameter of Stack-2 Boilers.....in.	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Minimum Height of Stack-2 Boilers.....in.	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Size of Steam Outlet.....in.	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Size of Return.....in.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Safety Valves.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Size of Safety Valves.....in.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boiler Covering Required.....sq. ft.	152	160	176	193	197	206	215	230	240	250	270	295	314	337	361	384	408

*This boiler contains no bridge wall; grates completely fill the base.

Note.—All other measurements on Nos. 400 to 420 are the same as on the steam boilers Nos. 300 to 320.

INTERNATIONAL HEATER COMPANY

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Utica, N. Y.

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110 Chestnut St.

ECONOMY BOILERS

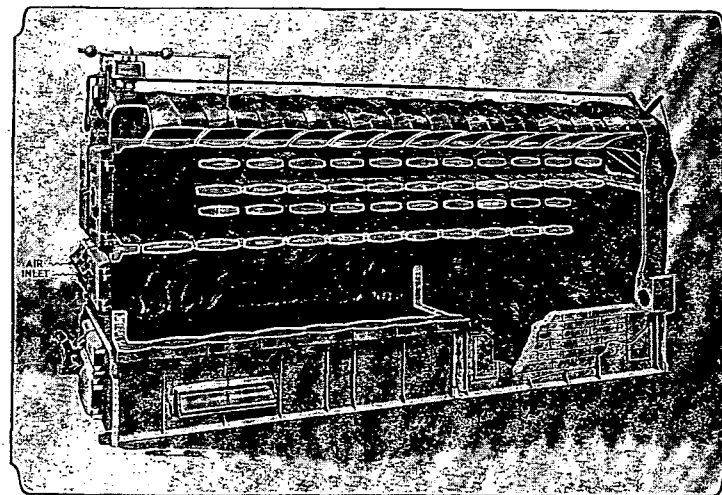
On the following pages we present condensed data on the INTERNATIONAL ROUND BOILERS, ECONOMY SECTIONAL BOILERS, both the Regular Pattern, and Mixing Arch and Wing Wall Type Smokeless Patterns.

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 pounds steam pressure or 180° 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° temperature, must be reduced to and included in equivalent square feet of direct cast iron radiation.

"This guarantee is based on fuel of at least 11,500 B.t.u. and a chimney providing sufficient draft to properly burn the fuel."

"Both the Regular and the Smokeless types have the following distinctive features in common: 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 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.



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