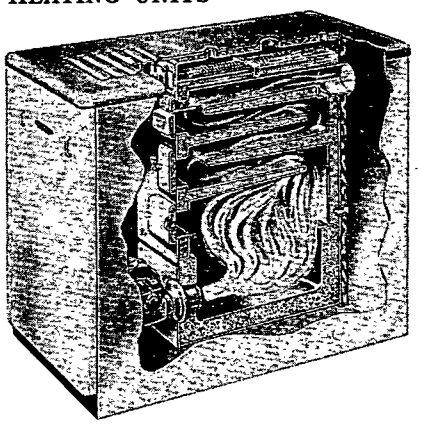
COLUMBIA Boiler Company of Pottstown

Pottstown, Pa.

Makers of steel power and heating boilers

STEEL, TUBELESS OIL-FIRED, WATER TUBE GAS-FIRED AND COAL-FIRED HEATING UNITS



ASME CODE
CONSTRUCTED
SBI RATED

Available with highly efficient, custom engineered gas or oil burners. Columbia steel boilers, gas or oil fired, have self contained large copper instantaneous tankless coils, supplying a continuous flow of year 'round domestic hot water.

Maximum operating efficiencies assured by the balanced design of the boiler and burner; by the arrangement of the baffles which force the hot gases to travel four or five times the full length of the boiler.

One piece electric welded construction: Columbia offers a heating unit with full electric welded construction of heavy copper bearing steel, to assure lower heating cost and longer operating life.

Quiet operation: Ample combustion space, the insulation and heavy steel jacket completely eliminate objectional noise.

Dual Firing: Columbia gas heating units may be easily converted for efficient oil firing.

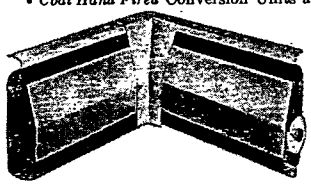
Oil and gas burners for Columbia Boilers are designed and manufactured by Columbia to insure maximum performance of boiler-burner units and to provide undivided responsibility.

	MODEL NO.						
	L-16	L-18	L-20	L-22	L-24	*L-30	*L-32
Ratings—Oil Fired							
Input—Gals per Hr	1.00	1.20	1.35	1.75	2.25	3.00	4.00
SBI Net Rating							
Sq Ft Forced Water	580	720	990	1260	1620	1980	2700
Sq Ft Gravity Water	510	640	880	1120	1440	1760	2400
Sq Ft Steam	320	400	550	700	900	1100	1500
Btu per hr Forced Water	87,000	108,000	149,000	189,000	243,000	297,000	405,000
Btu per hr Gravity Water	77,000	96,000	132,000	168,000	216,000	264,000	360,000
Btu per hr Steam	77,000	96,000	132,000	168,000	216,000	264,000	360,000

* Constructed Water Tube Only

• *Gas Fired Units A.G.A.* and *SUR* Approved for outputs from 72,000 to 172,000 Btu's per hour.

• *Coal Hand Fired* Conversion Units available in sizes L-18, L-22 and L-30



COLUMBIA BASEBOARD RADIATION

- Suspended Element—no noise!
- Tension Fastening—no rattling!
- Low Angle Heat—no drafts!
- Pre-Punched Holes—fast installation!

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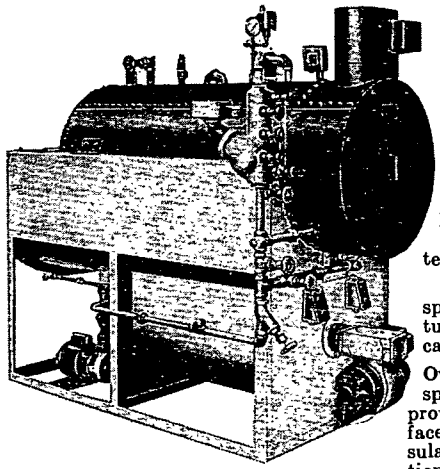
COLUMBIA'S H.R.T.* OIL OR GAS FIRED BOILER & STEAM GENERATOR



ASME CODE CONSTRUCTED—

Available for pressures of 15 to 150 psi.

A complete, automatic power plant wherever steam is used for processing

Columbia h.r.t. boilers are fully automatic, compact, complete steam generators. Available in sizes ranging from two to sixty horsepower. Designed for firing with gas, light or heavy oils. A special Columbia unit makes possible the inter-changeable use of gas or oil.

Overfiring Permitted: Conservative ratings plus large combustion volume permit overfiring. This frequently eliminates the need for additional boiler capacity, allows for plant expansion.

High Steam Output: Columbia's h.r.t. boilers have an unusually large heating surface to produce more steam at higher efficiencies. More heat is converted into steam since it is proportioned to make maximum use of hot gases of combustion for the production of steam.

Horizontal Design for longer life: The complete submersion of tubes protects them from water line corrosion.

Dry Steam Assured: Large steam space and greater liberation area virtually eliminate waste producing water carryover.

Over-All Efficiency: Factory installed, specially designed combustion chamber provides rapid heating refractory surfaces for peak combustion efficiency. Insulation, 7 inches thick in the combustion chamber proper, and 4 inches thick in the gas passage, keeps heat loss at a minimum. Special refractory brick heats up to great intensity to complete the combustion of previously unignited fuel particles. This complete combustion not only increases efficiency but makes for clean combustion. Soot accumulation on heating surfaces is minimized. Boiler tubes require less cleaning.

Safety Assured: Two pass updraft design lowers direct loss and reduces possibility of furnace pressure, pulsation or excessive combustion noises.

Accessibility and easy Maintenance: Simplified construction provides easy front and back access to the single bank of tubes. Entire unit can be gotten to for inspection of boiler and chamber by removing the covers.

SPECIFICATIONS AND DATA
COLUMBIA HRT BOILERS FOR GAS, LIGHT OIL OR DUAL FUEL
Horizontal Return Tubular Type

	Boiler Size								
	4	6	8	10	15	25	35	50	
Hp Rating	6	8	10	15	20	30	40	60	
Length O.A.	58	69	69	84	84	100	100	102	in.
Width O.A.	29	33	33	39	39	45	45	52	in.
Height O.A.	44	50	50	64	64	68½	68½	80	in.
Water Heating Surface	30	56	72	92	120	200	290	415	sq ft
Oil Firing Rate	2.00	3.00	3.5	5.00	7.00	10.00	12.00	18.00	gal. per hr
Gas Input	280,000	400,000	490,000	700,000	900,000	1,400,000	1,700,000	2,600,000	But per hr
Approximate Output	200,000	300,000	350,000	500,000	700,000	1,000,000	1,200,000	1,800,000	Btu per hr

* *Horizontal return tubular type boiler*