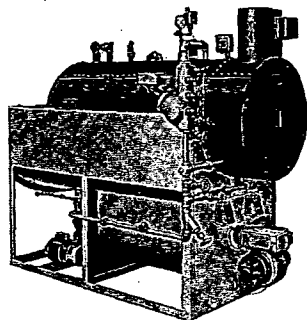


COLUMBIA Boiler Company of Pottstown

Pottstown, Pa.

Makers of steel power and heating boilers

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



Columbia h.r.t. boilers are fully automatic, compact, complete steam generators. Available in sizes ranging from 2 to 100 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.

ASME CODE CONSTRUCTED

Available for pressures of 15 to 250 psi.
A complete, automatic power plant wherever steam is used for processing

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									
	6	8	10	15	20	30	40	60	80	100
Hp Rating.....	6	8	10	15	20	30	40	60	80	100
Length O.A..... in.	58	69	69	84	84	100	100	102	124	124
Width O.A..... in.	29	33	33	39	39	45	45	52	58	58
Height O.A..... in.	44	50	50	64	64	68½	68½	80	96	96
Water Heating Surface..... sq ft	30	56	72	92	120	200	290	415	548	668
Oil Firing Rate..... gal. per hr	2.00	3.00	3.5	5.00	7.00	10.00	12.00	18.00	24.00	30.00
Gas Input..... Btu per hr	280,000	400,000	490,000	700,000	900,000	1,400,000	1,700,000	2,600,000	3,300,000	4,200,000
Approximate Output..... Btu per hr	200,000	300,000	350,000	500,000	700,000	1,000,000	1,200,000	1,800,000	2,600,000	3,400,000

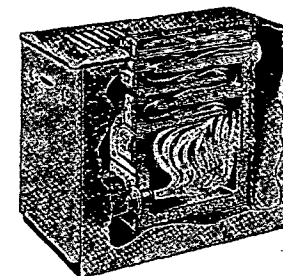
* Horizontal return tubular type boiler.

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
A.C.A. APPROVED

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 oil heating units may be easily converted for efficient gas firing.

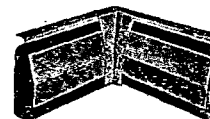
Oil and gas burners for Columbia Boilers are designed and manufactured by Columbia to insure maximum performance of boiler-burner units and to provide undivided responsibility.

	MODEL NO.							
	L-16	L-18	L-20	L-22	L-24	*L-30	*L-32	*L-40
Ratings—Oil Fired								
Input—Gals per Hr.	1.00	1.20	1.35	1.75	2.25	3.00	4.00	7.00
SBI Net Rating								
Sq Ft Forced Water.....	580	720	990	1260	1620	1980	2700	4000
Sq Ft Gravity Water.....	510	640	880	1120	1440	1760	2400	3500
Sq Ft Steam.....	320	400	550	700	900	1100	1500	2200
Btu per hr Forced Water.....	87,000	108,000	149,000	189,000	243,000	297,000	405,000	600,000
Btu per hr Gravity Water.....	77,000	96,000	132,000	168,000	216,000	264,000	360,000	530,000
Btu per hr Steam.....	77,000	96,000	132,000	168,000	216,000	264,000	360,000	530,000

* Constructed Water Tube Only

* Gas Fired Units A.C.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!