

COLUMBIA Boiler Company of Pottstown

Pottstown, Pa.

Makers of steel power and heating boilers

PACKAGED HRT* AND VERTICAL TUBELESS BOILERS AND STEAM GENERATORS TANKLESS INDIRECT WATER HEATERS

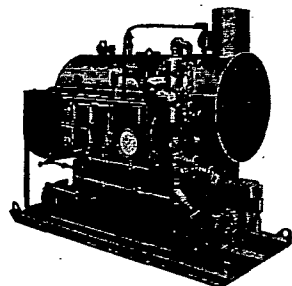
HRT* PACKAGED GENERATOR

A.S.M.E. Code Construction, Oil or Gas Fired, 2 to 100 H.P. Complete, Automatic Power Plants for Every Steam Processing or Hot Water Heating Need.

Designed for firing with gas, light or heavy oils; available with combination burner for interchangeable use of gas or oil.

COMPLETE • DEPENDABLE • EFFICIENT

Unit includes boiler, burner, gauges, controls, jacket, insulation, etc. It is shipped fully assembled, fully piped and wired, factory fire tested . . . ready for operation on arrival. Every part, every accessory was designed for maximum functional efficiency in proper relationship with all other parts. Problems of installation and service are thus reduced to a minimum . . . and maximum efficiency is assured.



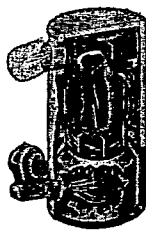
HIGHER STEAM OUTPUT, MORE EFFICIENT HEATING, SIMPLIFIED SERVICING

Having a greater heating surface than most makes of the same or higher ratings, the COLUMBIA generator produces more steam or hot water at higher efficiencies. More heat is converted into steam, more heat is transferred to water. It is proportioned to make maxi-

mum use of the hot gases of combustion . . . rapidly heating refractory surfaces and extra insulation enhance efficiency. Front and back access to tubes by easy removal of cover plates makes cleaning and inspection a cinch.

* HORIZONTAL RETURN TUBULAR

H.P. Rating	4	8	10	15	20	30	40	60	80	100
Length O.A.	72	81	81	96	96	110	110	114	148	148
Width O.A.	42	44 1/2	44 1/2	51	51	57	57	64	70	70
Height O.A.	60	56	56	81	81	85	85	97	112	112
Water Heating Surface	30	36	36	72	72	120	120	145	248	248
Oil Firing Rate	2.00	2.50	3.00	4.50	7.00	1,400	1,400	1,800	25.00	32.00
Gas or Oil Input	280,000	400,000	490,000	700,000	1,000,000	1,700,000	2,600,000	3,600,000	4,500,000	5,800,000
Approximate Output	200,000	300,000	350,000	500,000	700,000	1,000,000	1,200,000	1,800,000	2,700,000	3,400,000



VERTICAL TUBELESS STEAM GENERATOR

- Multipass tubeless design provides maximum heat transfer.
- Requires minimum floor space.
- Bottom firing and top vents eliminate gas traps.
- Large full area steam space insures dryer steam.
- McDonnell & Miller float operated low water cutoff and pump control with provision for electric probe type cut-off.
- Full three inches of insulation minimizes heat loss.
- Refractory combustion chamber insures more complete combustion.

- Easy access provided for cleaning and inspection—without need to remove controls.
- Conventional gun type fuel burning equipment, standard controls eliminate need for specialized service.
- Pressure fired and sealed to avoid need for stack or chimney.
- A.S.M.E. constructed and stamped—welds X-rayed and stress relieved.

SPECIFICATIONS AND DATA

H.P. Rating	5	10	15	25
Approx. Input BTU per Hour	240,000	420,000	630,000	1,200,000
Approx. Input Gals. per Hour	1.75	3.00	4.50	8.00
Approx. Output BTU per Hour	180,000	340,000	510,000	830,000
Boiler Height	48 1/2"	61 1/2"	68 1/2"	76 1/2"
Boiler Diameter	20"	24"	28"	36"
Approx. Floor Space	24" x 41 1/2"	3' x 5'	3 1/2' x 5'	4' x 6'
Max. Operating Pressure PSI	100	115	125	125
Approx. Shipping Wgt.	750 lb	1350 lb	1550 lb	2150 lb

TANKLESS INDIRECT WATER HEATER

A.S.M.E. Code Construction, SBI Rated

A clean, dependable source for every hot water need. Instantaneous indirect heating with copper coil . . . ensures against destructive corrosive action of raw water developed in direct fired heaters. Provides an abundant supply of clean, rust-free hot water at all times . . . from 190 to 1200 G.P.H., continuously at 100 deg. F. ris. Ample combustion space and insulation completely eliminate objectionable noises.



MODEL NO.*	Boiler-Burner Units			
	WHL20	TWHL36	TWHL40	TWHL48
RATINGS				
Input—Gals. per Hr.	1.35	5.50	7.00	9.00
Input—BTU per Hr. (recommended)	190,000	770,000	980,000	1,260,000
Heating Surface—Sq. Ft.	32.5	110.0	120.0	181.0
Gals. per Hr. 80° F. Rise	240	920	1160	1500
Gals. per Hr. 100° F. Rise	190	740	940	1200
HEATER DIMENSIONS				
Height	42"	60"	66"	66"
Width	19"	30"	32"	31"
Length	24"	35"	40"	48"

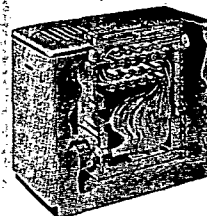
*UNITS AVAILABLE IN ALL INTERMEDIATE SIZES with BTU's per hr. of 280,000, 350,000, 490,000, 630,000, 980,000, 1,400,000.

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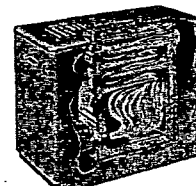
Pottstown, Pa.

Makers of steel power and heating boilers

STEEL WATER TUBE AND TUBELESS LOW PRESSURE HEATING BOILERS WITH 20-YEAR GUARANTEE



Water Tube



Tubeless

A.S.M.E. CODE CONSTRUCTION,
SBI Rated, A.C.A., SUR and UL Approved

Oil or gas fired; fully equipped with no extras needed. Burners are custom engineered for maximum operating efficiency, self-contained large copper instantaneous tankless coils provide a continuous flow of year 'round domestic hot water. MAXIMUM EFFICIENCY: The arrangement of baffles or tubes forces the hot gases to travel five times the full length of the boiler, effecting maximum heat transfer. Finest quality copper bearing boiler plate of uniform thickness assures fast heat transfer, longer life. QUIET OPERATION: Ample combustion space, insulation and heavy jacket completely eliminate objectionable noises.

	L-16	L-18	L-20	L-22	L-24	*L-30	*L-32	*L-36	*L-40	*L-48
Ratings—Oil Fired										
Input—Gals. per Hr.	1.00	1.20	1.35	1.75	2.25	3.00	4.00	5.5	7.00	9.00
SBI Net Rating										
Sq Ft. Forced Water	580	720	990	1260	1620	1980	2700	3750	4800	6100
Sq Ft. Gravity Water	510	640	880	1120	1440	1760	2400	3300	4200	5400
Sq Ft. Steam	320	400	550	700	900	1100	1500	2050	2600	3400
Btu per hr. Forced Water	87,000	108,000	149,000	189,000	243,000	297,000	405,000	560,000	700,000	915,000
Btu per hr. Gravity Water	77,000	96,000	132,000	168,000	216,000	264,000	360,000	495,000	620,000	810,000
Btu per hr. Steam	77,000	96,000	132,000	168,000	216,000	264,000	360,000	495,000	620,000	810,000

* Constructed Water Tube Only
Gas Fired Units A.C.A. and SUR Approved for outputs from 72,000 to 1,008,000 Btu's per hour.



PACKAGED TUBELESS LOW PRESSURE OIL OR GAS BOILER-BURNER HEATING UNITS

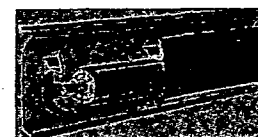
A.S.M.E. Construction
BOILER CARRIES
20-YEAR GUARANTEE

A marvel of heating efficiency, it provides positive assurance of minimum installation cost. Equipped with large copper instantaneous (tankless) coils for a continuous flow of domestic hot water. Fully pre-wired at the factory, with controls completely installed . . . has attractive two-tone gray extended steel jacket . . . leaves nothing to be done except to remove wrappings and connect utilities. Complete unit skidded and fully enclosed in strong carton for safe shipment.

FULL FLOW BASEBOARD RADIATION



Tested
and
Rated



- Unique base lip assures full heating efficiency with wall-to-wall carpeting
- New magnetic damper assures secure positioning
- Noiseless performance assured by 1. Interlocking fin spacing tabs. 2. Floating element. 3. Adhesive pads attached to element. 4. Front cover held firmly in place by unique tension spring action bracket.
- FULL-FLOW unpainted aluminum-fin design on copper heating element
- Simplified installation: Pre-flared copper tubing ends, snap-on brackets. No tools required.
- All enclosure parts have baked white enamel finish

2-TIER UNITS ALSO AVAILABLE.

ASME CONSTRUCTION	LB-M1	LB-M2	LB-M3	LB-M4	LB-M10	LB-M20	LB-M30
RATINGS							
Input—BTU per Hr.	85	1.00	1.20	1.35	110,000	130,000	160,000
Input—Gals. per Hr. (recommended)	.85	1.00	1.20	1.35	430	520	640
Installed Radiation—Sq. Ft. Water	78,000	96,000	114,000	132,000	88,000	104,000	128,000
Heating Surface—Sq. Ft.	150	170	190	200	150	170	190
G.P.H. (continuous)	3	3 1/2	4	4	3	3 1/2	4
G.P.M. (intermittent)	17.2	20.5	24.8	26.0	17.2	20.5	24.8
Heating Surface—Sq. Ft.	2.2	3.0	3.0	4.0	2.2	3.0	3.0
Combustion Volume—Cu. Ft.							
* G.P.M. Tankless Water Heater							
optional extra							
DIMENSIONS							
Casing Height	45"	51"	51"	51"	45"	51"	51"
Casing Width	21"	21"	21"	21"	21"	21"	21"
Casing Length	32"	32"	32"	32"	32"	32"	32"

† Gas fired