

Johnston Brothers, Inc.

ESTABLISHED 1864



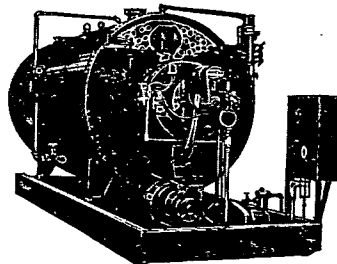
Ferrysburg, Michigan

Member



Reg. U. S. Pat. Off.

"PACKAGED"
STEAM BOILER UNIT
FULLY AUTOMATIC
HEAVY OIL



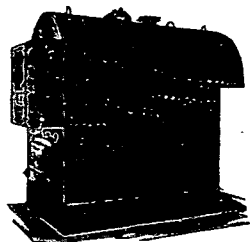
WATER-BACK TYPE,
FORCED DRAFT, THREE-PASS,
TROUBLE-FREE, EFFICIENT.

Rating guaranteed and overloads readily obtained.

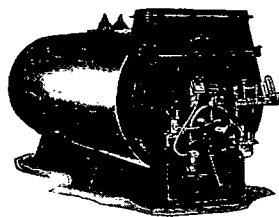
HIGH PRESSURE TYPE from 50 to 500 hp and pressures of 125, 150 & 200 lb psi.

LOW PRESSURE TYPE for heating; 15 lb pressure, and EDR rating from 2190 sq ft to 42,500 sq ft steam.

A.S.M.E. Code construction. Ask for Bulletin 505.



Firebox Heating Boiler, Compact Type. Oil, Gas, Stoker or Hand Firing. Three-Pass 15 lb pressure. A.S.M.E. Code. Capacities 2190 to 42,500 sq ft. SBI rating. Ask for Bulletin 1500.



Standard Scotch Boiler
Water-back Type,
Natural Draft.

POWER, PROCESS, HEATING.

25 to 300 hp and pressures 15 lb to 200 lb psi. For mechanical firing with Coal, Gas or Oil. Overloads up to 200 per cent of rating readily developed. Oil or Gas firing equipment and controls can be installed for completely automatic operation and in emergency or fuel scarcity, can be readily converted to Coal firing.

Ask for Bulletin 4000

Mt. Hawley Mfg. Co.

Mt. Hawley Airport, Peoria, Illinois

Manufacturers of ASME Oil and Gas-fired Boiler-Burner Units, Water Heaters, Conversion Oil Burners

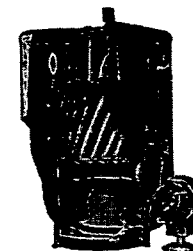


New Spiral Tube Design (Pat. applied for) extracts more heat; lowers stack temperature approximately 100 deg. All-Steel. Sides and top heavily insulated. Wet base. Pre-cast combustion chamber or tankless heater easily replaced.

Underwriters Approved oil burners; AGA approved gas units to burn natural, manufactured, or LP gas.

Simplified Installation. Completely assembled at factory.

Water Heaters. All models available galvanized as water heaters for commercial and institutional use.



SIZES AND SPECIFICATIONS—MT. HAWLEY BOILER-BURNER UNITS

Boiler Model Number	DOMESTIC			COMMERCIAL			
	No. 10	No. 16	No. 25	No. 40	No. 55	No. 75	No. 100
Rating Sq. Ft. HW Standing Radiation	540	920	1400	2240	3072	4160	5600
Rating Sq. Ft. Steam Standing Radiation	340	575	875	1400	1920	2600	3500
B.t.u. Output per hour (max.)	104000	172000	261000	417000	574000	782000	1043000
H. P.	2-3	4-6	6-8	10-12	12-16	18-22	25-30
Sq. Ft. Heating Surface	20	32	43	80	131	174	232
Capacity of blr-gph delv-100° rise when used as Water Heater	120	181.5	275	440	605	825	1100
Water Capacity of Boiler, gal.	20	27	37	62	106	155	194
*G. P. H. Capacity Water Heating Coil (tankless type)	120	120	280	320	450	600	800
Mt. Hawley burner model recom.	G-2	G-2	G-4	G-4	G-6A	G-6B	G-6B
Firing Rate Recommended, G. P. H.	.75-1.00	1.00-1.65	1.65-2.50	2.50-4.00	4.00-5.50	5.50-7.50	7.50-10.00
Boiler Main Shell	(Diameter..... 17 1/4" Gauge of Steel..... 3/4" Height..... 48 1/4"	20 1/4" 1 1/2" 48 1/4"	24 1/4" 1 1/2" 48 1/4"	29" 1 1/2" 57 1/4"	34" 1 1/2" 67"	39" 1 1/2" 79"	44 1/4" 1 1/2" 79"
Tubes	(Diameter O. D..... 2" Gauge of Steel..... 12 ga. No. in each size blr..... 10	2" 12 ga. 19	2" 12 ga. 28	2" 12 ga. 47	2" 12 ga. 65	2" 12 ga. 88	2" 12 ga. 124
Flue Heads ft Gauge of Steel	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"
Jacket	(Shape..... Square Diameter or width..... 20 1/4" Length..... 25 1/4" Height..... 52 1/4"	Square 23 1/4" 25 1/4" 52 1/4"	Square 23 1/4" 25 1/4" 52 1/4"	Round 31" 29 1/4" 59 1/4"	Round 36" 30" 69"	Round 41" 36" 81 1/4"	Round 46 1/4" 36" 81 1/4"
Height Water Line	32 1/4"	32 1/4"	32 1/4"	42"	49 1/4"	53"	53"
Steam Outlet	(Diameter..... 2" Height above floor..... 39 1/4"	2" 39 1/4"	2" 39 1/4"	2 1/2" 49"	3" 57 1/4"	4" 67"	4" 67"
Diameter of return	2"	2"	2"	2 1/4"	3"	4"	4"
Smoke Outlet	(Diameter..... 8" Height above floor..... 43 1/4"	8" 43 1/4"	9" 43 1/4"	10" 51 1/4"	12" 60 1/4"	12" 71 1/4"	12" 71 1/4"
Diameter Burner Opening	4 1/4"	4 1/4"	4 1/4"	4 1/4"	5 1/4"	5 1/4"	5 1/4"
Chimney Size Recommended	8x8"	8x8"	9x9"	12x12"	12x16"	16x16"	16x16"
Shipping Weight—boiler	612	763	1009	1530	2280	2700	3350
Shipping Weight—burner	60	60	72	72	82	82	82
Shipping Weight—total	672	823	1081	1602	2362	2782	3432

* Estimated—Based on 180° boiler water, 100° temperature rise. Boiler shipping weights are estimated since almost every shipment will vary in weight due to lumber and building of the crate. Write for complete specifications on Mt. Hawley Boiler-Burner Units and gun-type oil burners—0.65 to 20.0 gph. New Mt. Hawley high-efficiency combustion head especially designed for catalytic oils available.

