

## Whiting Corporation

HARRINGTON DIVISION

Harvey, Illinois

Manufacturers of the Whiting Automatic Stoker for  
Heating and Power Plant Boilers of 25 to 250 HP.

**The Whiting Stoker** (formerly the King Coal) is a front, horizontal feed, stepped grate mechanism, having two stationary and two movable sections. Gravity plays no part in the horizontal progression of the fuel bed. It provides fully automatic stoking for small boilers, discharging the ash as well as feeding the fuel.

Hospitals, hotels, apartments, schools and laundries and all sizable buildings find its smokeless combustion, fuel saving and fully automatic operation of substantial value in reducing their heating costs.

**Fits any Boiler**—The Whiting Stoker can be built to exactly fit any type of boiler of 25 to 250 hp. and installed with but few or no changes. It requires a minimum of setting height, making possible larger combustion space with greater efficiency and ability to carry overloads. Sixty-two sizes are available, all identical in construction.

**Smokeless Operation** with any grade of fuel has made the Whiting Stoker the solution of the smoke problem of hundreds of buildings.

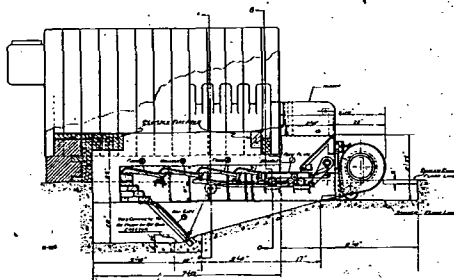
**Flexibility**—Varying speed of travel and depth of coal bed are secured by one to four inch adjust-

ability of the stroke and the adjustability of the hopper gate. Only alternate grates are movable, thus securing uniform flow of coal without caking. An even fire is maintained continuously.

**Combustion** is progressive and complete. We guarantee 12 per cent CO<sub>2</sub>.

**Burns all Grades of Fuel**, including Mid-Western screenings without smoke and with high efficiency, resulting in substantial reductions in fuel costs.

**Continuous and Automatic Ash Discharge** is an exclusive feature of the Whiting Stoker which is entirely self cleaning.



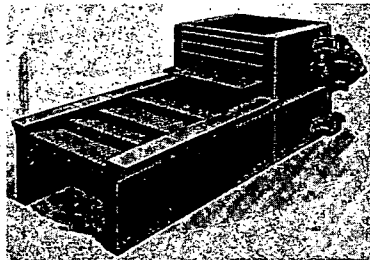
1. Feed plate and first step of grate (movable).
2. Second step of grate (stationary).
3. Third step of grate (moves synchronously with step No. 1).
4. Fourth step of grate (stationary).
5. Cast iron door in ash pit (also provides seal for wind box).

## Standard Sizes

Grate Widths in feet: 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6.

Grate Lengths in feet: 3½, 3¾, 4¼, 4½, 5, 5½, 5¾, 6.

Each width can be made in any length specified above. Required furnace width 9 in. more than the grate width. Active grate area 10 in. shorter than maximum depth of furnace.



Whiting Stoker (Patented)

## American Radiator Company

IDEAL GAS BOILERS

Distributor

American Gas Products Corporation

376 Lafayette Street, New York

## IDEAL GAS BOILERS

Completely up-to-date, Ideal Gas Boilers represent best practice in gas boiler construction and in automatic controls. They are built for all Steam, Vapor and Hot Water heating systems as well as Hot Water Supply.

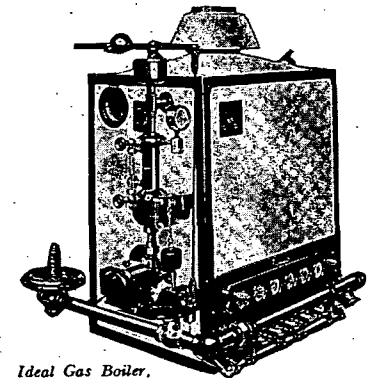
Ideal Gas Boilers are available now with either throttling or snap action control valves. Either valve is available with motor control. The motor control is a motor mounted directly on the valve and operates the valve mechanically.

Especially attention is called to the convenience and simplicity of Motor Equipment which requires the addition of a thermostat only to obtain room temperature control.

Thermostatic pilots are all of the Vapor-Tension type which require no adjusting after once being properly set.

The controls are all mechanical in operation and are all centered in one main supply control valve.

The Ideal Gas Boilers listed below comply with all the American Gas Association approval requirements and have been approved by the A. G. A. Laboratories. Four other larger units are available. Information furnished on request.



## RATINGS—DIMENSIONS

| Steam Boiler No. | A.C.A. Steam Rating, Sq. Ft. | Supplier, Sq. Ft. of Direct Cast Iron Radiation | Water Boiler No. | A.C.A. Water Rating, Sq. Ft. | Supplier, Sq. Ft. of Direct Cast Iron Radiation | Output, B.t.u. | Boiler Horsepower | Number of Sections | Number of Burners | Number and Size of Gas Control Valve, Inches | *Number and Size of Tappings |               | Dimensions                                         |                                   |               |               |
|------------------|------------------------------|-------------------------------------------------|------------------|------------------------------|-------------------------------------------------|----------------|-------------------|--------------------|-------------------|----------------------------------------------|------------------------------|---------------|----------------------------------------------------|-----------------------------------|---------------|---------------|
|                  |                              |                                                 |                  |                              |                                                 |                |                   |                    |                   |                                              | Supply Inches                | Return Inches | Number and Size of Flue Connections, Diam., Inches | Height Including Diverter, Inches | Width, Inches | Depth, Inches |
| 0-GS-4           | 270                          | 173                                             | 0-GW-4           | 430                          | 280                                             | 64,000         | 1.9               | 4                  | 3                 | 1-1/2                                        | 1-2/2                        | 1-5/2         | 1-5                                                | 54                                | 18 1/2        | 133 1/2       |
| 0-GS-5           | 340                          | 219                                             | 0-GW-5           | 540                          | 350                                             | 81,000         | 2.4               | 5                  | 3                 | 1-1/2                                        | 1-2/2                        | 1-5/2         | 1-5                                                | 54                                | 18 1/2        | 165 1/2       |
| 0-GS-6           | 410                          | 263                                             | 0-GW-6           | 660                          | 420                                             | 98,200         | 2.9               | 6                  | 3                 | 1-1/2                                        | 1-2/2                        | 1-5/2         | 1-6                                                | 55                                | 18 1/2        | 199 1/2       |
| 0-GS-7           | 480                          | 307                                             | 0-GW-7           | 770                          | 490                                             | 115,200        | 3.4               | 7                  | 3                 | 1-1/2                                        | 1-2/2                        | 1-5/2         | 1-6                                                | 55                                | 18 1/2        | 229 1/2       |
| 1-GS-4           | 550                          | 353                                             | 1-GW-4           | 880                          | 564                                             | 132,000        | 3.9               | 4                  | 3                 | 1-1/4                                        | 2-4                          | 2-4           | 1-6                                                | 52 1/2                            | 18 1/2        | 249 1/2       |
| 1-GS-5           | 710                          | 456                                             | 1-GW-5           | 1130                         | 732                                             | 170,000        | 5.1               | 5                  | 4                 | 1-1/4                                        | 2-4                          | 2-4           | 1-7                                                | 52 1/2                            | 22 1/2        | 249 1/2       |
| 1-GS-6           | 870                          | 558                                             | 1-GW-6           | 1390                         | 909                                             | 208,000        | 6.2               | 6                  | 5                 | 1-1/2                                        | 2-4                          | 2-4           | 1-8                                                | 53                                | 25 1/2        | 249 1/2       |
| 1-GS-7           | 1030                         | 661                                             | 1-GW-7           | 1640                         | 1076                                            | 246,000        | 7.3               | 7                  | 6                 | 1-1/2                                        | 2-4                          | 2-4           | 1-8                                                | 53 1/2                            | 30 1/2        | 249 1/2       |
| 1-GS-8           | 1180                         | 767                                             | 1-GW-8           | 1890                         | 1254                                            | 284,000        | 8.5               | 8                  | 7                 | 1-1/2                                        | 2-4                          | 2-4           | 1-8                                                | 54 1/2                            | 34 1/2        | 249 1/2       |
| 1-GS-9           | 1340                         | 872                                             | 1-GW-9           | 2150                         | 1440                                            | 322,000        | 9.6               | 9                  | 8                 | 1-2                                          | 2-4                          | 2-4           | 1-9                                                | 57 1/2                            | 38 1/2        | 249 1/2       |
| 1-GS-10          | 1500                         | 981                                             | 1-GW-10          | 2400                         | 1624                                            | 360,000        | 10.7              | 10                 | 9                 | 1-2                                          | 2-4                          | 2-4           | 1-9                                                | 58 1/2                            | 42 1/2        | 249 1/2       |
| 1-GS-11          | 1660                         | 1090                                            | 1-GW-11          | 2650                         | 1810                                            | 398,000        | 11.9              | 11                 | 10                | 1-2                                          | 2-4                          | 2-4           | 1-10                                               | 58 1/2                            | 46 1/2        | 249 1/2       |
| 4-GS-6           | 2000                         | 1332                                            | 4-GW-6           | 3200                         | 2214                                            | 480,000        | 14.3              | 6                  | 5                 | 1-2                                          | 1-6                          | 1-5           | 1-11                                               | 69                                | 27            | 411 1/2       |
| 4-GS-7           | 2400                         | 1624                                            | 4-GW-7           | 3840                         | 2676                                            | 576,000        | 17.2              | 7                  | 6                 | 1-2                                          | 1-6                          | 1-5           | 1-12                                               | 69 1/2                            | 31            | 411 1/2       |
| 4-GS-8           | 2800                         | 1922                                            | 4-GW-8           | 4480                         | 3151                                            | 672,000        | 20.0              | 8                  | 7                 | 1-2                                          | 1-6                          | 1-5           | 1-13                                               | 71 1/2                            | 35            | 411 1/2       |
| 4-GS-9           | 3200                         | 2215                                            | 4-GW-9           | 5120                         | 3634                                            | 768,000        | 22.9              | 9                  | 8                 | 1-2                                          | 1-6                          | 1-5           | 1-14                                               | 72 1/2                            | 39            | 411 1/2       |
| 4-GS-10          | 3600                         | 2506                                            | 4-GW-10          | 5760                         | 4114                                            | 864,000        | 25.8              | 10                 | 9                 | 1-2                                          | 1-6                          | 1-5           | 1-15                                               | 75                                | 43            | 411 1/2       |
| 4-GS-11          | 4000                         | 2800                                            | 4-GW-11          | 6400                         | 4571                                            | 960,000        | 28.6              | 11                 | 10                | 1-2                                          | 1-6                          | 1-5           | 1-16                                               | 75 1/2                            | 47            | 411 1/2       |
| 4-GS-13          | 4800                         | 3400                                            | 4-GW-13          | 7680                         | 5500                                            | 1,152,000      | 34.4              | 13                 | 12                | 1-3                                          | 2-6                          | 1-5           | 2-12                                               | 69 1/2                            | 61            | 411 1/2       |
| 4-GS-15          | 5600                         | 4000                                            | 4-GW-15          | 8960                         | 6400                                            | 1,344,000      | 40.0              | 15                 | 14                | 1-3                                          | 2-6                          | 1-5           | 2-13                                               | 71 1/2                            | 69            | 411 1/2       |
| 4-GS-17          | 6400                         | 4600                                            | 4-GW-17          | 10240                        | 7300                                            | 1,536,000      | 45.8              | 17                 | 16                | 2-2/2                                        | 2-6                          | 1-5           | 2-14                                               | 72 1/2                            | 77            | 411 1/2       |
| 4-GS-19          | 7200                         | 5100                                            | 4-GW-19          | 11520                        | 8240                                            | 1,728,000      | 51.6              | 19                 | 18                | 2-2/2                                        | 2-6                          | 1-5           | 2-15                                               | 75                                | 85            | 411 1/2       |
| 4-GS-21          | 8000                         | 5700                                            | 4-GW-21          | 12800                        | 9100                                            | 1,920,000      | 57.2              | 21                 | 20                | 2-2/2                                        | 2-6                          | 1-5           | 2-16                                               | 75 1/2                            | 93            | 411 1/2       |
| 4-GS-22          | 8400                         | 6000                                            | 4-GW-22          | 13440                        | 9600                                            | 2,016,000      | 60.0              | 22                 | 21                | 2-3                                          | 4-6                          | 2-5           | 3-13                                               | 71 1/2                            | 103           | 411 1/2       |
| 4-GS-25          | 9600                         | 6900                                            | 4-GW-25          | 15360                        | 11000                                           | 2,304,000      | 68.7              | 25                 | 24                | 2-3                                          | 4-6                          | 2-5           | 3-14                                               | 72 1/2                            | 115           | 411 1/2       |
| 4-GS-28          | 10800                        | 7700                                            | 4-GW-28          | 17280                        | 12300                                           | 2,592,000      | 77.4              | 28                 | 27                | 2-3                                          | 4-6                          | 2-5           | 3-15                                               | 75                                | 127           | 411 1/2       |

\*Additional tappings available by removing plugs and jacket cover plates, 4-G-6 to 4-G-11—1-6 in. supply and 1-5 in. return; 4-G-13 to 4-G-28—2-6 in. supply and 2-5 in. return. †Governor one pipe size larger. Water line: Type 0-G=32 in.; Type 1-G=30 in.; Type 4-G=43 in.