

Iron Fireman Manufacturing Company

Automatic Firing Equipment for Coal, Oil, Gas



Portland, Oregon

Cleveland, Ohio

Address inquiries to 3166 West 106 St., Cleveland 11, Ohio

Retail Branches or Subsidiaries: CHICAGO, ILL.; MILWAUKEE, WIS.; ST. LOUIS, MO.; NEW YORK, N. Y.; BROOKLYN, N. Y.; TORONTO, CANADA

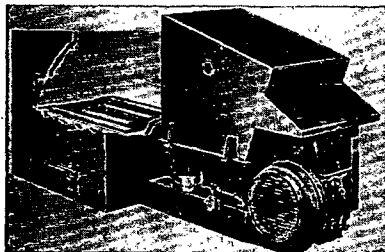
Dealers in Principal Cities and Towns in the United States and Canada

Representation in numerous foreign countries

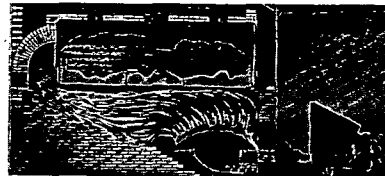
COMMERCIAL AND INDUSTRIAL STOKERS

STANDARD HOPPER MODELS

This series of stokers is the standard of value in equipment for automatically firing boilers ranging in size up to 350 hp. Available in a wide range of coal feeding capacities, lengths and grate arrangements, to fit varied requirements.

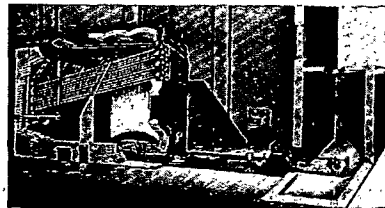


Commercial Installation—Hopper Model



Hopper Model Iron Fireman in Operation in Horizontal Return Tubular Boiler

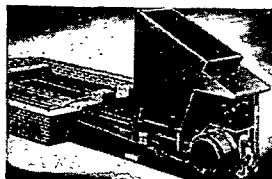
STANDARD COAL-FLOW MODELS



Commercial-Industrial Installation Coal-Flow model that carries coal direct from main bin or bunker to fire

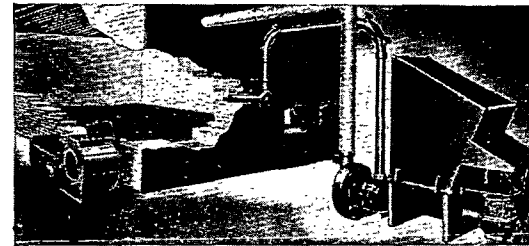
A heavy duty stoker which combines Iron Fireman's well known firing efficiency with the automatic conveying of coal direct from bunker to fire. An integral coal conveying mechanism eliminates the labor and expense of manual coal handling. The IRON FIREMAN COMMERCIAL-INDUSTRIAL COAL-FLOW stoker fires boilers developing up to 350 horsepower. PNEUMATIC SPREADER STOKERS also available in Coal-Flow models.

POWERAM STOKERS



Combines ram-type coal distributor system in retort with free-running worm conveyor from coal supply, and has these advantages: Delivers the fuel to the fire bed in a loose, easily aerated condition; the reciprocating pusher blocks insure proper fuel distribution, and make possible the successful and efficient burning of many types of coal which otherwise are impractical to fire automatically with underfeed stokers. Designed for boilers developing up to 400 hp.

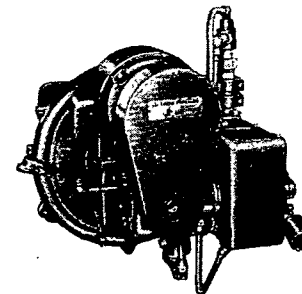
PNEUMATIC SPREADER STOKERS



As shown in the illustration above, the IRON FIREMAN PNEUMATIC SPREADER STOKER meters steam size coal from hopper or main coal bunker to transfer housing, where coal is picked up by pneumatic conveyor and delivered to furnace. The conveyor nozzle accurately spreads the larger particles of coal over the entire grate in a shallow, uniform fuel bed. The preheated fines burn in suspension, reducing the cinder carry-over and greatly improving the combustion efficiency and responsiveness, as compared with other stokers which do not preheat fuel. The conveying air provides the over-fire air which is essential for efficient combustion. Entering at right angles to

the flow of burning gases from the fuel bed, the conveying air produces maximum turbulence; another requisite of efficient and smokeless combustion. THE IRON FIREMAN PNEUMATIC SPREADER STOKER was designed to burn efficiently such economical fuels as the lower rank bituminous, and sub-bituminous coals and also lignite. It provides reliability of operation, physical adaptability, ease of operation, and low maintenance which is not afforded by other types of automatic coal burning systems. Pneumatic Spreader stokers are particularly adaptable to operation at high ratings, and as a result are greatly stepping up steam output in many plants throughout the United States and Canada. IRON FIREMAN PNEUMATIC SPREADER STOKERS are made in both hopper and Coal-Flow models; the latter carry coal direct from the bunker to the fire. Available in capacities up to 1000 hp per nozzle. Multiple units for larger boilers.

INDUSTRIAL OIL BURNER



Oil Volumeter accurately regulates oil regardless of its temperature or viscosity

This industrial oil burner brings new precision and dependability to the firing of high viscosity oils. Accurate adjustment of the fuel feed rate, eliminating pulsating fires and difficult "cold boiler room" starting, is achieved by a principle of multiple-piston feeding. This positive feed control produces a steady flame even when burner is throttled down to low capacity. Any fuel oil, from the lightest to the heaviest, will operate without need for special adjustments. Models available for manual, semi-automatic, or fully automatic operation. Control combinations can be provided to meet individual requirements. Available in capacities from 8 to 125 gph., to develop up to 425 hp.

RESIDENTIAL STOKERS, OIL AND GAS BURNERS—OIL AND COAL SELF-FIRING DOMESTIC BOILERS AND FURNACES—RESIDENTIAL GAS FURNACES.

Write for new general Catalog No. 1396, illustrating and describing the complete line of Iron Fireman automatic heating equipment for industrial, commercial and domestic use.