New IRON FIREMAN

Luminous Flame



True Heating Comfort

New Iron Fireman Luminous Flame heating produces a houseful of contentment with such quiet efficiency that you almost forget you have a heating system. No matter whether you prefer coal or oil for fuel; whether you like steam, hot water, or warm air heating; whether you want to install a new heating plant or modernize your present one, Iron Fireman Luminous Flame heating will provide an abundance of carefree, dependable



IRON FIREMAN Luminous





here (left) as an integral part of the Wassrburse unit. The Coal-Flow can also be installed in any standard boiler or farmed, as in the small In Iron Fireman automatic coal-firing the fuel is fed from below and is semaled with six under forced draft as it enters the combustion shamber. As the coul rises in the retest it is

gradually hasted and releases the more velocile elements which, in the form of combatible gases, pass through the field bed, where they are entirely consumed. In hand-dring, where the new coal is thrown or ap of the fee, a large share of these sases so unthe stock reshared Automotic control of fact and air produces the clean, highly officient havinous flame. The new Coal-Flow has worse new features which make it easier to motall, more efficient in

EAR CAST

Rediant Heat from a Laminus Flame







BON FIREMAN



Flame HEATING with coal or oil

THE Luminous Flame VORTEX OIL BURNER

An outstanding development in oil burner engineering. Its whirling vortex of oil vapor and air creates a highly efficient, bowl-shaped flame which completely covers the hearth and blankets the combustion chamber walls. t exposes a maximum area of highly luminous flame, throwing intense radiant heat against the most effective heating surfaces—the crown sheet and side walls of the furnace. Its horizontal hearth is a heat reflecting surface which adds to the efficiency of the radiant flame. There are no moving parts in the burner bead or under the combustion chamber. therefore no moving mechanism subject to furnace heat. Servicing is simple and easyupkeep and fuel costs exceptionally low. Oil nozzle faces black crown sheet of furnace rather than a heat reflecting, refractory wall,

protecting nozzle against carbonization.

The Iron Fireman Vortex oil burner can be easily installed in all standard types of furnaces or boilers.



FOR OIL

IRON FIREMAN



Whirling vortex of oil vapor and air makes new-type luminous flame, blanketing combustion chamber walls. No morine parts subject to

IRON FIREMAN M-2 OIL BURNER



effective mixing of oil and air gives high combustion efficiency. Provides years of quiet, dependable service and home heating comfort.

The M-2 Oil Burner

The high combostion efficiency of the Mx2 Oil Barner is mainly the result of Iron Firenant's carefully engineered air diffuser, in which atomized oil is carried into the combostion chamber by whiting air currents. The fuel-assing ability of this barner has been well established, not only in actual use, but in extensive engineering tests both in the Iron Firenan and independent engineering laboratories.

The M-2 oil burner can be easily installed in all standard types of furnaces or boilers. It is readily altered for a wide range of fuel capacities—from six-tenths of a gallon to four and one half gallons per hour.





IRON FIREMAN WATERBORNE HEATING -a steam, vapor, or hot water heating unit with

the fron Firman Luminous Flanc. This combination under of modern design and styling contained under the calculate, and instrument panel nearly received for a boiler, an instrument panel nearly received from inso the side of the calculors, and a bailey nearly Fireman Vertex oil burner or Coal-Flow scider. Fireman Vertex oil burner or Coal-Flow scider. The boiler is particularly designed for extra of many learners of the coal-Flow scider. Heating surfaces are of ample area to slowed transfer beat a fast as it is liberated by the humber. Its seed plate countries time, Superhouse the state of the size of the coalter of the size of the coal-Flow science of the size of the coal-Flow efficient design, make this boiler unusually responsive to heat demands.



IRON FIREMAN AIRBORNE HEATING



Self-contained automatic warm air beating unit. Heats, cleans, humidifies, circulates the air. Oil model has Vortex oil burner, coal model feeds direct from bin.

IRON FIREMAN



Self-contained, automatically fired boiler unit for ateam, hot water or vapor heating. Oil model has Yortex burner, coal model feeds direct from bin. No coal handling.

IRON FIREMAN AIRBORNE HEATING-

a soff regulating, self-centained warm air bentity mist—all in one compact attractive cubinet. The necessary elements for thoroughly modern warmaris heating are ball it too this time speciments for the contract of the cont



IRON FIREMAN MANUFACTURING COMPANY * CLEVELAND, OHIO