

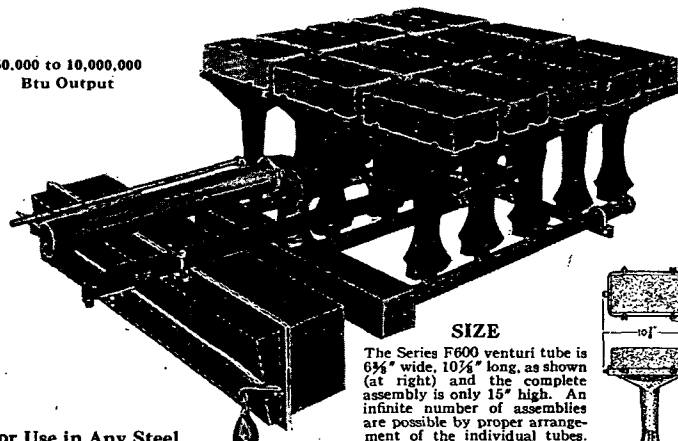
The Webster Engineering Co.

419 West 2nd St., Tulsa, Oklahoma

Division of
SURFACE COMBUSTION CORP., TOLEDO, OHIO

WECO-N.G.E. SERIES F600 GAS BURNERS

50,000 to 10,000,000
Btu Output



SIZE

The Series F600 venturi tube is 6 1/4" wide, 10 1/4" long, as shown (at right) and the complete assembly is only 15" high. An infinite number of assemblies are possible by proper arrangement of the individual tubes. For complete sizing information see Bulletin F600H.

For Use in Any Steel
Firebox or Sectional Boiler

Improved venturi and greater port area insure much higher capacities at lower pressures.

Unique baffles at the outlet of the mixing tube make possible perfectly even distribution of flame completely around the baffle brick. As a result the maximum flame length is greatly reduced.

Interchangeable grills with multiple ports can be varied to suit the combustion characteristics of various gases. The proper sizing of these grills prevents any possibility of flash back.

In addition to the above major improvements the F600 possesses the same desirable features that made the 600 so popular.

1. Simple installation requiring no expensive insulated combustion chamber and having no furnace radiation loss.

2. Extreme quietness due to low rate of

combustion over a large area.

3. Flexibility from infinite number of possible combinations varying both size and shape to meet load and firebox conditions at various gas pressures.

4. High radiant transmission rate due to radiant temperature of the standard fire-brick baffles on the top of the burner tubes.

5. Low draft loss because of ample secondary air openings.

6. Plain gas pilots of heat resistant material and of a design that will not allow flame to pull off.

7. Safety pilot applied in a cool zone in a manner that insures perfect direct ignition of the burner yet allowing the thermal element to cool quickly upon flame failure.

8. Guaranteed vibrationless under all conditions.

CAPACITY OF SINGLE F600 VENTURI TUBE—No. 17 MTD ORIFICE

Manifold Gas Pressure...	0.5" W.C.	1.0" W.C.	2.0" W.C.	3.0" W.C.	4.0" W.C.	5.0" W.C.	6.0" W.C.	4 oz.	6 oz.	8 oz.
Input—Cu Ft. 1 hr....	24.5	38.5	58.0	72.0	84.0	94.5	104.0	112.0	138.0	159.5
Output—Sq Ft. St. Rad.	75	117	178	222	258	289	318	343	423	488
Output—Boiler H.P....	.54	.84	1.28	1.59	1.85	2.07	2.28	2.46	3.04	3.4

Automatic Burner Corp.

1823 Carroll Avenue

Chicago 12, Illinois

DOMESTIC BOILER AND FURNACE UNITS
RANGE BURNERS—WATER HEATERS
SPECIAL PRODUCTS



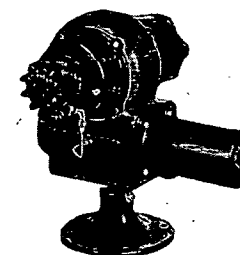
AUTOMATIC OIL BURNING HOT WATER HEATER

Instant hot water is provided by all A B C models, capacities of 65, 125, 300, or 500 gallons per hour. Extra efficiency is provided by the built-in fire and water tubes.

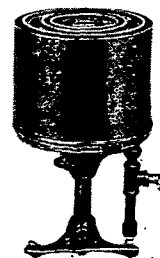
Each water heater is perfectly matched with the correct specially designed gun type A B C burner. All models are compact and beautifully finished.

PRESSURE TYPE OIL BURNER

The gun type oil burner has the famous A B C Oilairator mechanism that atomizes the fuel, mixes it with air, and delivers it with correct twist and velocity to insure complete combustion. The A B C nozzle combined with the proper choke and turbulator guarantees precise control and flexibility... guarantees a thoroughly satisfactory economical home heating unit. Capacity 0.6 to 6.0 gallons per hour.



RANGE BURNER



A B C offers complete interchangeability of parts—precision manufactured—all-steel construction—butt welded all-steel shells that fit tightly to the pressed steel base preventing air leakage and insuring an efficient flame. The full blue flame is secured in a few minutes. Oversized tubing throughout prevents plugging and air pockets. Precision-made one piece valve insures precise oil flow adjustment. The A B C is easy to clean and easy to operate—a well built, adaptable, safe range burner.