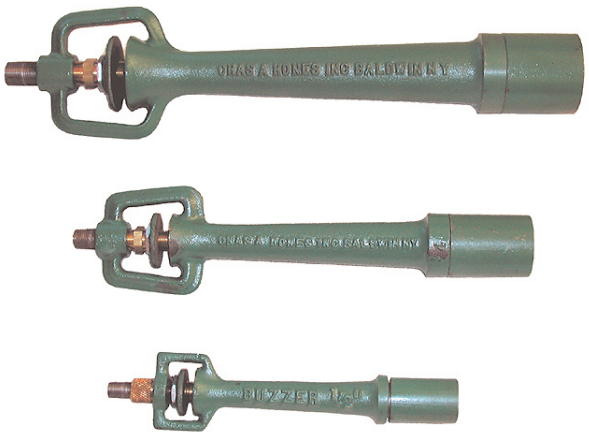
Venturi Air Mixer

No blower. No compressed air.
Buzzer
No complicated piping. Simple.

The ***Buzzer*** Venturi air mixer operates efficiently on natural or propane gas to produce a hot blue flame. Our Venturi is recommended by natural gas companies, service technicians, propane suppliers and equipment manufacturers because it is durable, efficient, and simple in design. It inspirates a greater amount of primary combustion air through the mixing tube, requiring less secondary (make-up) air in the combustion chamber. A very high rate of efficiency is obtained, producing the hottest and quickest heat without a blower. With more than a dozen standard sizes (all made of rugged cast iron), the ***Buzzer*** Venturi is the time-proven answer to all your heating questions: since 1911, Hones is how.



Venturis, top to bottom: 1 1/2", 1" and 1/2"

Features

The Venturi air mixer is manufactured on Long Island, New York, using class 30 grey cast iron. Our simple all cast iron construction will withstand high ambient temperatures and provide the durability and ruggedness expected of a ***Buzzer*** engineered product. The standard ***Buzzer*** Venturi mixer will operate on either low or high (above 1 PSI) pressure natural or propane gas.

Standard Venturi

All standard Venturi mixers come equipped with a fixed brass orifice. In most cases we will supply a #70 guide hole unless a different drill size or BTU output is specified. The advantage of a fixed orifice is that it will provide a pre-determined BTU output that cannot be mistakenly altered. If a change in orifice is needed, (for instance when switching from natural gas to propane), the orifice assembly can be removed without disconnecting the Venturi mixer from the gas line (sizes 1"- 6" only).

The standard ***Buzzer*** Venturi comes with NPT pipe connections on both inlet and outlet. Standard NPT pipe threads allow for both easy installation, using readily available pipe fittings, and easy replacement of worn parts. Note: the machined outlet on the cast iron Venturi is a male pipe thread ranging from 1/2" to 6" diameter. However, a steel coupling is supplied on the outlet end both to protect the male pipe threads and to facilitate simple installation to a threaded pipe.

Gas furnaces for heat treating & melting.
Buzzer
Venturi gas burners. Since 1911.

Venturi Air Mixer

N-type Venturi

For the most demanding applications, we offer our ***Buzzer*** N-type Venturi. The N-type Venturi is specially machined with an extra-wide mixing throat, which allows it to inspirate additional primary air for increased BTU output. We manufacture N-type Venturis in the most popular sizes, including 1 1/4", 1 1/2" and 2"; all are made of durable cast iron.

Applications

Industrial applications for the ***Buzzer*** Venturi air mixer include melting furnaces, heat treating furnaces, forging equipment, casting ovens, ceramic kilns, as well as heating tanks, chemicals, liquids, and various solutions from black oxide to hot rinse tanks. Commercial applications include pizza ovens, bakery ovens, rotisseries, BBQ's, cookers, roasters, scalders, boilers, steam tables and kettles. The durable cast iron Venturi is also used on most equipment manufactured by Charles A. Hones, Inc.

Pipe size in inches	Length in inches	Weight in pounds	Gas connection in inches	BTU's per hour in 1,000's
1/2	7 3/8	3/4	1/8	5 to 10
3/4	9	1	1/8	10 to 20
1	11	1 1/2	1/4	15 to 35
1 1/4	14	2 3/4	3/8	25 to 65
1 1/4 N type	14	4	3/8	35 to 75
1 1/2	15	3 1/2	3/8	40 to 80
1 1/2 N type	15	5	3/8	50 to 120
2	18 1/2	6	1/2	60 to 150
2 N type	19	8 1/2	1/2	70 to 175
2 1/2	23 1/4	11	1	90 to 180
3	27 1/4	15 1/2	1	125 to 300
4	35 1/2	35	1 1/2	250 to 600
6	46	70	1 1/2	600 to 1,250

Please note: length is figured from end of coupling to end of nipple. Sizes from 1/2" to 3" are available with adjustable orifices. Ranges of gas consumption shown are those at which these Venturi air mixers are designed to give their best efficiency using low pressure gas (under 1 PSI); there are conditions, however, under which it is not advisable to go to the maximum.