ATMOSPHERIC GAS MIXER

MODEL: AG

BULLETIN: 101

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Industrial atmospheric gas mixers are the first product of **SHOLEH SANAT CO.** This company manufactures the atmospheric mixers of the capacity between 10,000 to 1,800,000 Kcal /hr. In the cases that combustion chambers are in vacuum situations these capacites may reach to values almost 2.5 times greater.





AG mixer with STH burner head

TECHNICAL SPECIFICATIONS:

Throat diameter of burners and the air-gas mixing tube are designed such that a homogeneous air-gas mixture is produced for burner head. This shall cause a flame with high thermal efficiency.

According to the pressure existing in the combustion chamber, two types of burner heads are used with the industrial atmospheric mixers.

- I Burner heads equipped with the flame retention device for combustion chambers with atmospheric or vacuum pressure.
- ${
 m II}$ Sealed burner head for the combustion chambers with $\,$ positive pressure. Turn down ratio with these burner head are 4 to 1

APPLICATION:

The industrial atmospheric gas mixers are used in:

A-Traditional Furnaces:

- Furnaces for melting of aluminum, brass, copper, cast iron and glass
- Heat treatment furnaces
- Heater of bitumen tanker
- · Refractory brick burning
- Sand and mold heaters

B-Industrial Furnaces:

- Heat treatment furnaces
- Melting furnaces with operating temperature of up to 1400 °C

This mixer works with natural gas or LPG. The pressurized gas is injected into the air through a nozzle with high velocity, and making a vacuum condition causes the suction of air. The excess air can be secured up to 20%.

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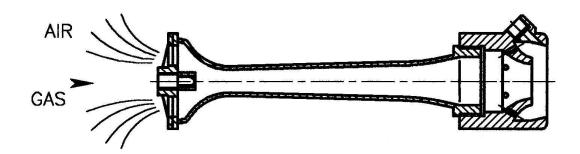
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Table of heat capacity (kcal/hr) with STH burner heads

Gas Press. (Psi)	5	10	15	20	30				
Burner type	Capacity(kcal/hr)								
10 AG	4,000	5,500	7,000	8,000	10,000				
45 AG	18,000	25,000	30,000	36,000	45,000				
100 AG	40,000	55,000	70,000	80,000	100,000				
150 AG	60,000	85,000	100,000	120,000	150,000				
190 AG	75,000	100,000	130,000	150,000	190,000				
230 AG	90,000	130,000	160,000	180,000	230,000				
470 AG	190,000	270,000	330,000	380,000	470,000				
950 AG	380,000	540,000	670,000	770,000	950,000				
1800 AG	730,000	1,000,000	1,250,000	1,400,000	1,800,000				



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Burner type	Dimensions							
	Α	В	С	D	E	F		
	mm	In	mm	mm	mm	in		
10 AG	195	3/4	40	40	47	1/4		
45 AG	275	1	55	48	96	1/4		
100 AG	300	1.1/2	64	54	96	1/2		
150 AG	470	2	90	87	101	1/2		
190 AG	560	2.1/2	95	94	200	1		
230 AG	605	3	120	81	200	1		
470 AG	750	4	150	154	200	1		
950 AG	950	6	212	200	277	1		
1800 AG	1200	8	140		350	1		

