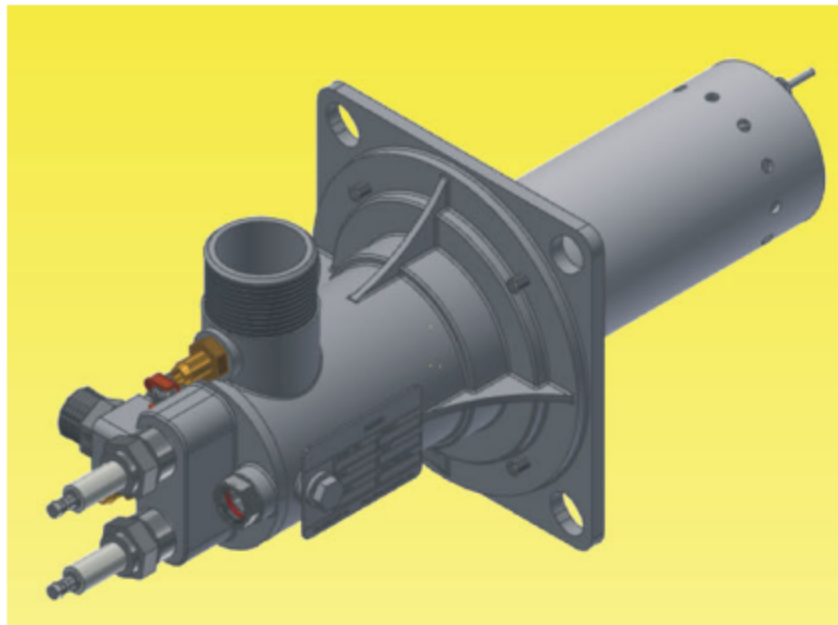




## ASD Integral Burner



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## **ASD Integral Burner**

### **Cost-effective ceramic burner with high stability**

#### Features

ASD Integral Burner has high combustion efficiency, blue flame and all the parameters in the combustion products meet the national environmental protection standards. It has the advantages of small power adjustment range, low noise, no tempering and no de-ignition.

The burner head is made of heat-resistant stainless steel, and the burner has the function of automatic ignition and detection, which can be used with the ignition controller to realize the kiln temperature self-control and flameout alarm.

ASD Integral Burner has a very high performance-to-price ratio, while taking into account the stability of the structure. The utility model has the advantages of simple structure, easy operation, integrated assembly and high installation precision. Silicon carbide assembled with burners will make it more accurate to use preheated air (below 200°C).

ASD Integral Burner has good flame stability and regulation ratio, and its load regulation range is more than 1:10, which is suitable for a variety of control modes and heating process requirements.



#### Applications

- Ceramics Roller Kiln    ● Tunnel Kiln

#### Product Description

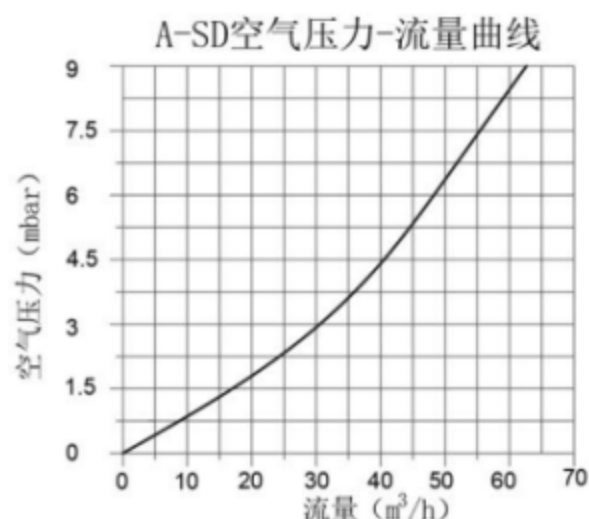
- |   |  |
|---|--|
| ● Air shell: Cast aluminum                            | ● Maximum preheating air temperature: 200° C |
| ● Material material for air inlet pipe: Cast aluminum | ● Power: 5-60KW                              |
| ● Applied maximum furnace temperature: 1200° C        | ● Air inlet pressure: 1- 5mbar               |
| ● Combustion chamber: Silicon carbide                 | ● Gas inlet pressure: 1- 13mbar              |
| ● Fire pipe material: SUS 304                         | ● Fuel: NG                                   |
| ● Combustion head: SUS 310S                           | ● Adjustment ratio: 1:10                     |
| ● Fixed flange: Cast aluminum                         |  |

#### Ignition and Flame Monitoring

- The ignition of the burner can be realized by the ignition electrode, and the flame detection can be realized by ion detection.

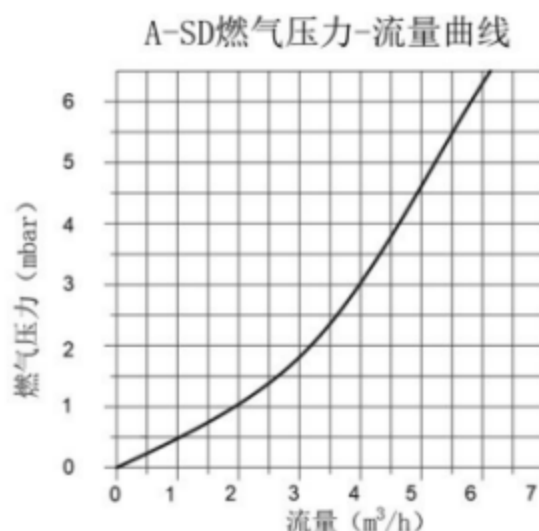
Air Pressure- Traffic Characteristics

A-SD Air Pressure- Flow Curve



Gas Pressure-Traffic Characteristics

A-SD Gas Pressure-Flow Curve



A-SD burner test data (air sheet: type A wind plate, test conditions: air excess coefficient 1.0, air temperature: Normal temperature)

#### Installation

The ASD Integral Burner is recommended to be installed horizontally and may cause water vapor condensation and ignition problems on the electrodes if vertical installation is required.

ASD Integral Burner can be used in furnaces with refractory fiber lining, refractory brick or refractory castable masonry.

#### Specific installation requirements:

The burner is fixed horizontally on the furnace wall with bolts, and thermal insulation cotton needs to be installed between the burner and the furnace wall.

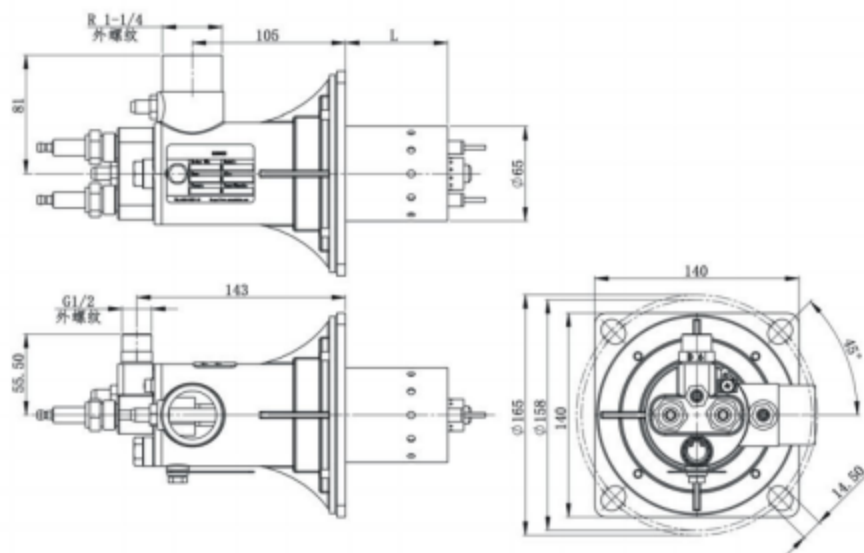
The connection direction of air and gas inlet can be adjusted according to the field conditions.

ASD Integral Burner is often used with silicon carbide because of its high thermal conductivity, low thermal expansion coefficient, light weight, high strength and good energy saving effect.

**Burner Specification**

Product Code	Model	Power	Fire pipe diameter	Fire pipe length /L	Wind film type	Fuel	Area
101901650001	ASD-65-A-70	5-60KW	65	70	Type-A	NG	Preheating section, high temperature section
101901650002	ASD-65-A-100	5-60KW	65	100	Type-A	NG	Preheating section, high temperature section
101901650003	ASD-65-A-110	5-60KW	65	110	Type-A	NG	Preheating section, high temperature section
101901650004	ASD-65-A-120	5-60KW	65	120	Type-A	NG	Preheating section, high temperature section
101901650005	ASD-65-A-150	5-60KW	65	150	Type-A	NG	Preheating section, high temperature section
101901650006	ASD-65-A-180	5-60KW	65	180	Type-A	NG	Preheating section, high temperature section
101901650007	ASD-65-A-200	5-60KW	65	200	Type-A	NG	Preheating section, high temperature section

The specific installation dimension is shown in the following table:



External Thread