



Surface burner

Metal knit burner

MNB

MNB Metal knit burner

Stable combustion can be obtained over a wide range, we provide a burner with a combustion surface of various shapes.

Feature

Metal Knit Burner is a very unique surface combustion burner, which uses special heat resisting metal fiber and can be processed into the burner has combustion surface of various shapes

1 Stable combustion

The stable combustion can be obtained over wide range because the burner adopts premixing method.

2 Wide Surface load and turndown ratio

Surface load is 200~20,000kW/m² over wide range, so turndown ratio is large. It can select the flame type which infrared ray reflection mode to blue flame mode.

3 Low NOx, Low CO

Complete combustion, and keep NOx value low.

4 Easy combustion adjustment

Because the combustion of METAL KNIT BURNER excels in followability, it responds as quickly as possible to adjust the brightness of the electric lamp.



Main Usage

● Metal heating

Heat-up speed is fast and the preheating time is halved.

The mold is uniformly heated, improving the yield of the product

The shape of the burner surface, such as double-sided type, can be designed according to the shape of the object to be heated.

Heating only the necessary parts increases the life of the mold.

● Feeder, Nozzle heating

Heating of the nozzle part which was done with electric heater etc. is possible with cheap gas fuel.

With compact design, it does not take a space.

It is possible to design burners according to the shape of the heated part.

Since response speed is fast, high efficiency operation is possible.

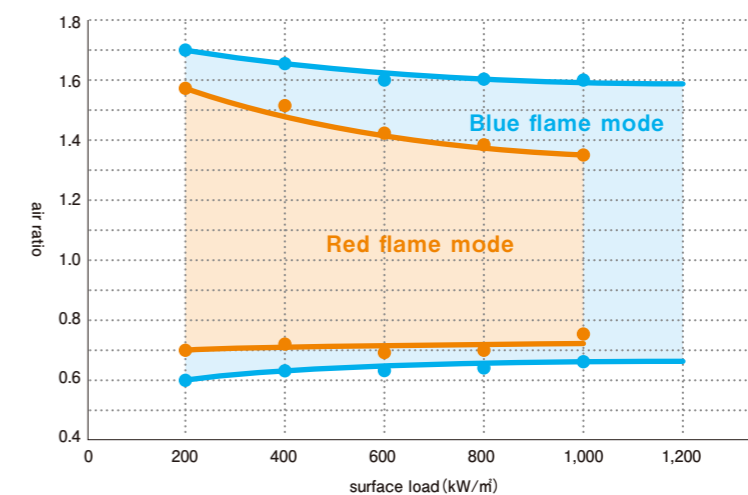
● Others

Since this burner can process into any shape, it can be used for various purposes.

Boiler, chiller / heater, drying, glass processing, melt holding, heat treatment related, material preheating, water heater, cooking appliances, heating etc.

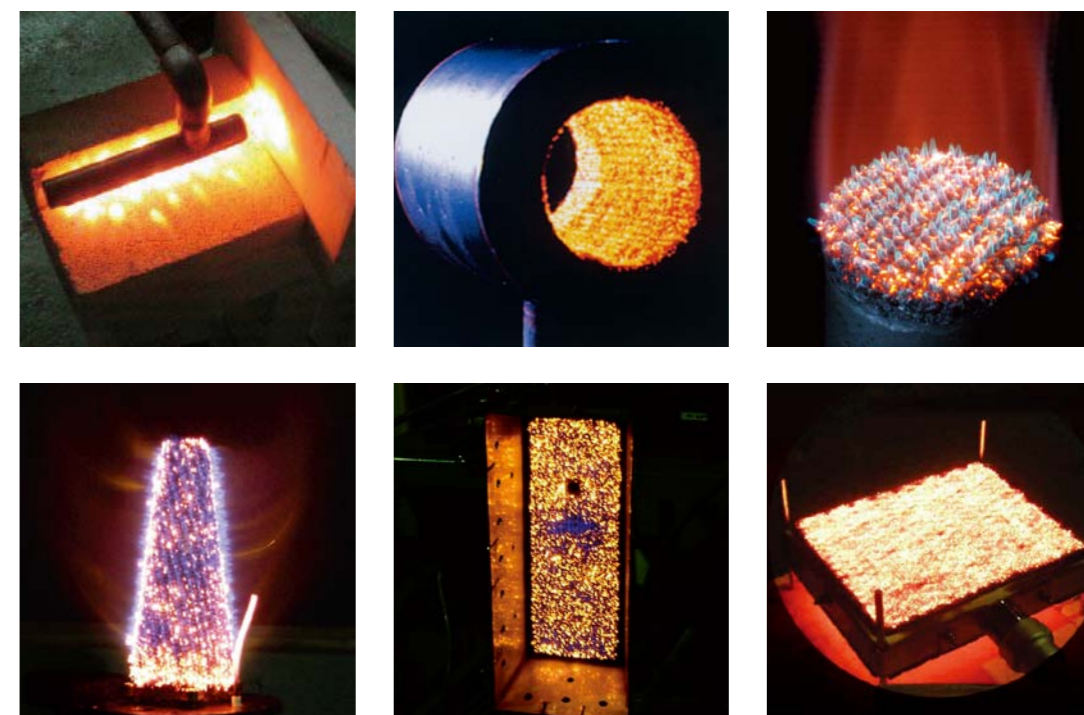
Data

Combustion characteristic



Typical examples

For other shapes, please contact us.



Handling Precautions

- surface load
 - 200~ 1,000kW/m²(Red flame mode)
 - 1,000~20,000kW/m²(Blue flame mode)
- maximum surface temperature
 - 1,000℃
- appropriate air ratio
 - 1.0~1.1
- material
 - heat resisting metal fiber(Fecralloy)
- Please use in the atmosphere, and consult us if installing in the furnace.
- This is premixing combustion method. Please attach the air filter to the air side.
- Please consult us if using it for heating food.