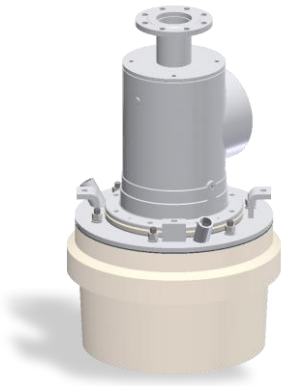
Low NOx flat flame burner SFFF



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CHARACTERISTICS

- Burner SFFF: flat flame, high radiation temperature, no air scouring when burning, the maximum preheating air temperature up to 600 °C.
- The burner burns quickly to obtain better radiation. In addition, uniform flame temperature distribution thanks to the secondary air structure, reduces the generation of NOx.
- 4 specifications are available within the capacity of 250～800 kW; the recommended furnace temperature is 850～1300 °C.
- Turn down ratio: 1:3.
- Fuel: natural gas, LPG, town gas and other fuel gases.

APPLICATIONS

SFFF series flat burners are mostly used for the furnace with direct/radiant heating and centralized air heat exchanger, such as trolley furnace, chamber furnace or ring furnace and other directly heated industrial furnace.

CONFIGURATION

- The burner is composed of a burner insert, an air housing and a burner block.
- A double-flange orifice plate is required in the gas pipeline for gas pressure measurement.
- The air inlet is equipped with a double-flange orifice plate by default.
- The SFFF burner is ignited by a pilot burner and adopts UV detection, or only detect the flame signal of pilot burner and without detecting the main burner.

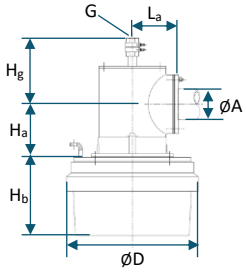
SPECIFICATION

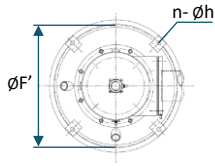
Type table

Type				SFFF	500	N	-350
Rated capacity	200	300	500				
Fuel	N: natural gas		P: LPG	T: town gas			
Block thickness	350: 350mm						

Please contact us for other rated capacity.

Dimensions





Unit: mm

Type	Rated capacity /kW	A	G	La	Hg	Ha	Hb	D	F′	n	h
200	200	89	Rp1 1/4"	206	523	230	345	585	540	4	18
300	300	89	Rp1 1/4"	206	558	230	345	585	540	4	18
500	500	114	Rp1 1/2"	206	558	230	345	585	540	4	18

SOLUTIONS

- Usually used in double-cross limit flow control, or direct on/off pulse control. Can also be used in continuous control system with an actuator and an air/gas proportional valve.

INSTALLATION

- When installing, the end of burner block and furnace inner wall must be purged, or the inner wall of the furnace wall must be fixed with a gentle excess area according to the angle of burner block. Hanging rings for hanging installation.
- In order to measure a stable pressure, a straight pipe segment with 5*DN without any other resistance elements is required in front of the air and gas inlet.
- The pipeline must be purged before connected to the burner to prevent welding slag or other wastes from entering the burner. If a pipe welding is required after installing the burner, ensure that no slag or fuses falls into the pipe or burner during welding.

Access pressure

Access	Pressure/mbar
Main burner air	50
Main burner gas	50
Pilot burner air	60
Pilot burner gas	50

OPERATION

Attention

- During start-up, keep the heating rate below 100°C/hour, no holds required. When the furnace temperature is lower than 750°C, a large excess air coefficient greater than 1.5 is required.
- If the burner needs to be shut off, the air flow rate must be maintained about 20 m^3/h to maintain a positive pressure inside the burner to prevent burner from being damaged by furnace chamber hot gas backflow.

Maintenance

- Maintenance: SiC ceramic tubes, spark insert, flame state and others. At least once every six months. Increase the times of maintenance, as appropriate.