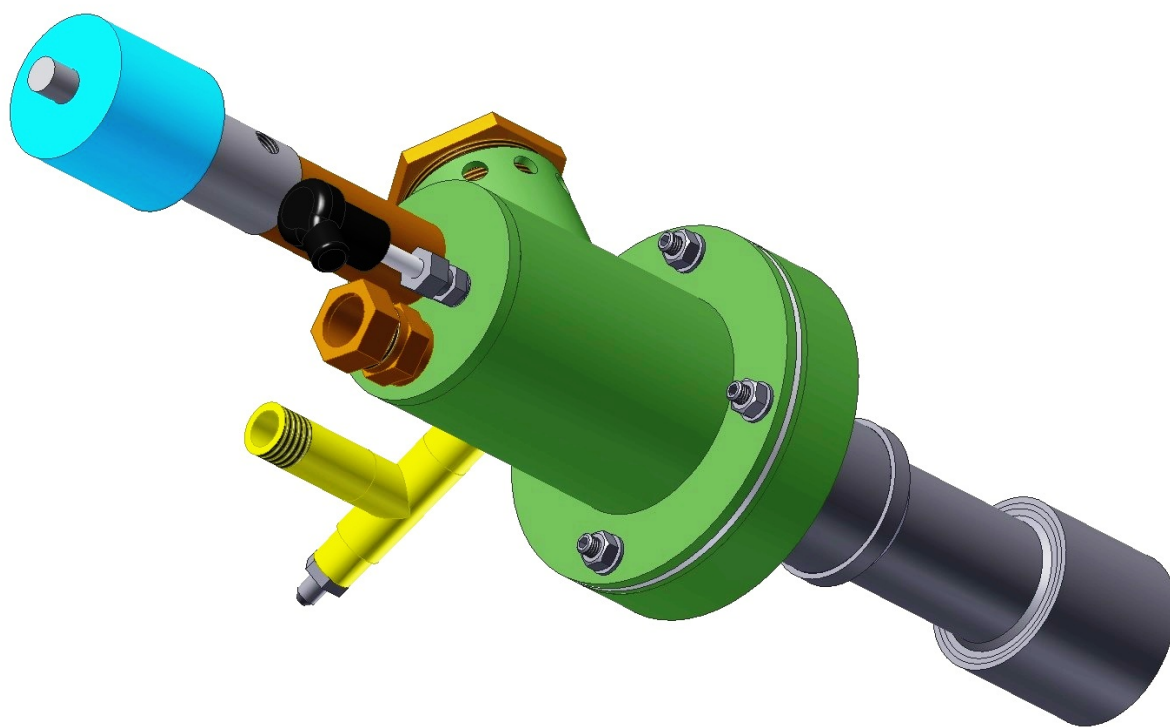
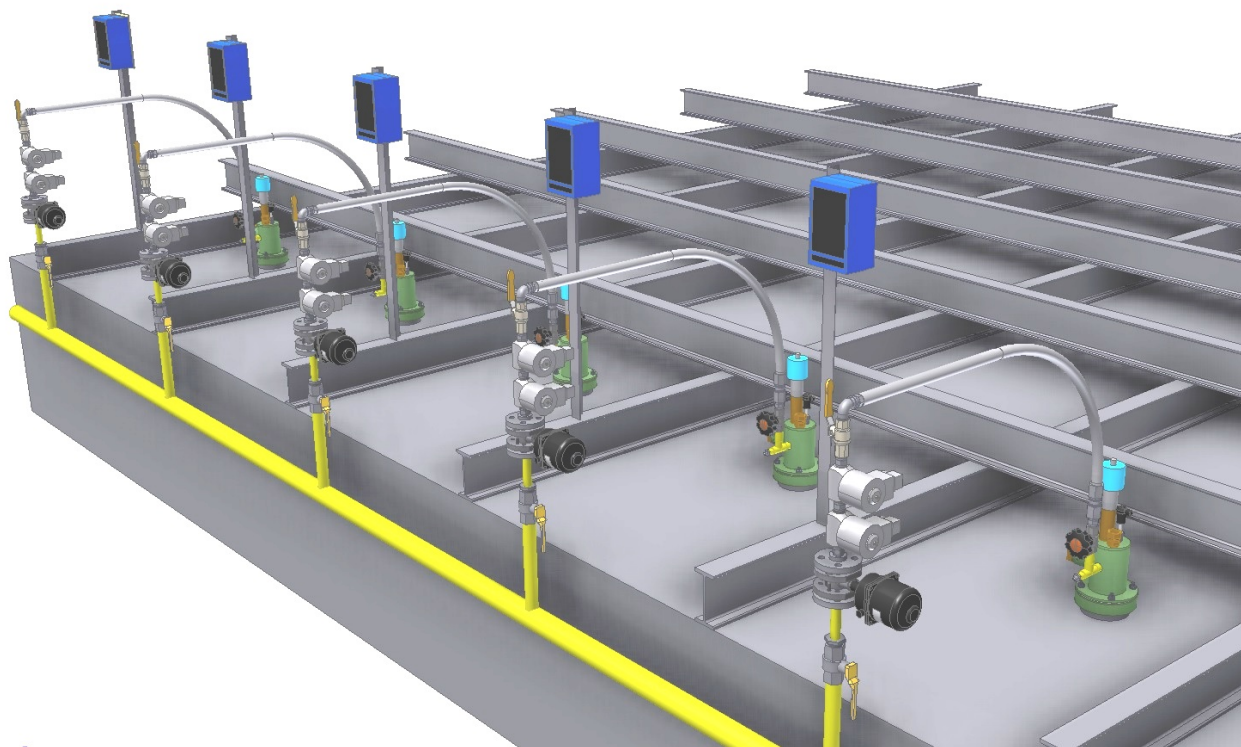


INJECTOR-TYPE GAS BURNER GPI - 250

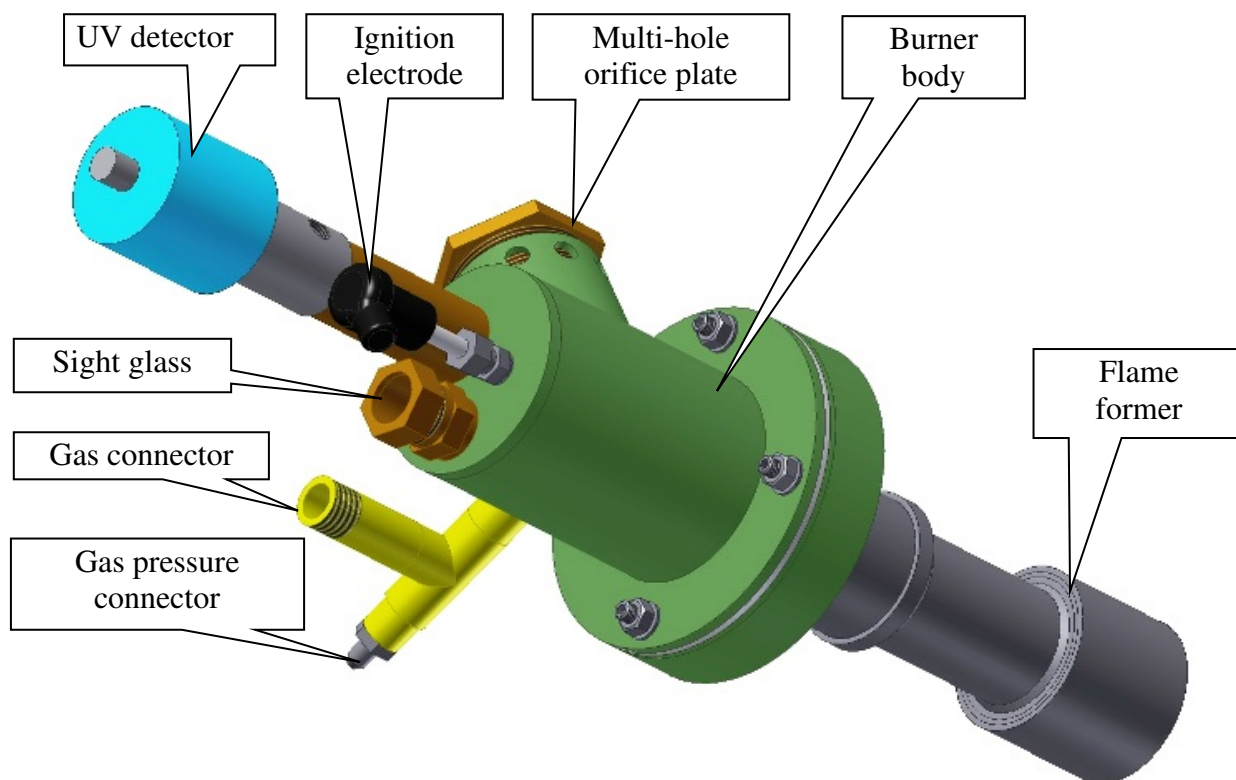


DATA SHEET



Description and Technical Characteristics of the Burner

The GPI-250 injector burner is designed for gas combustion in a mixture of primary air drawn from the surroundings and a stream of secondary air preheated to high temperature in the charge-cooling zone. In the GPI-250 burner, a mixture of primary combustion air and gas is formed with an excess coefficient of $\lambda < 1$. At the outlet of the burner's flame-shaping element, the sub-stoichiometric mixture is ignited by a spark. The resulting flame is monitored by a UV radiation detector mounted on the front plate of the burner. Complete combustion of the gas occurs in the hot secondary air flowing into the combustion zone from the charge-cooling zone. The burner equipment is shown in the drawing below.

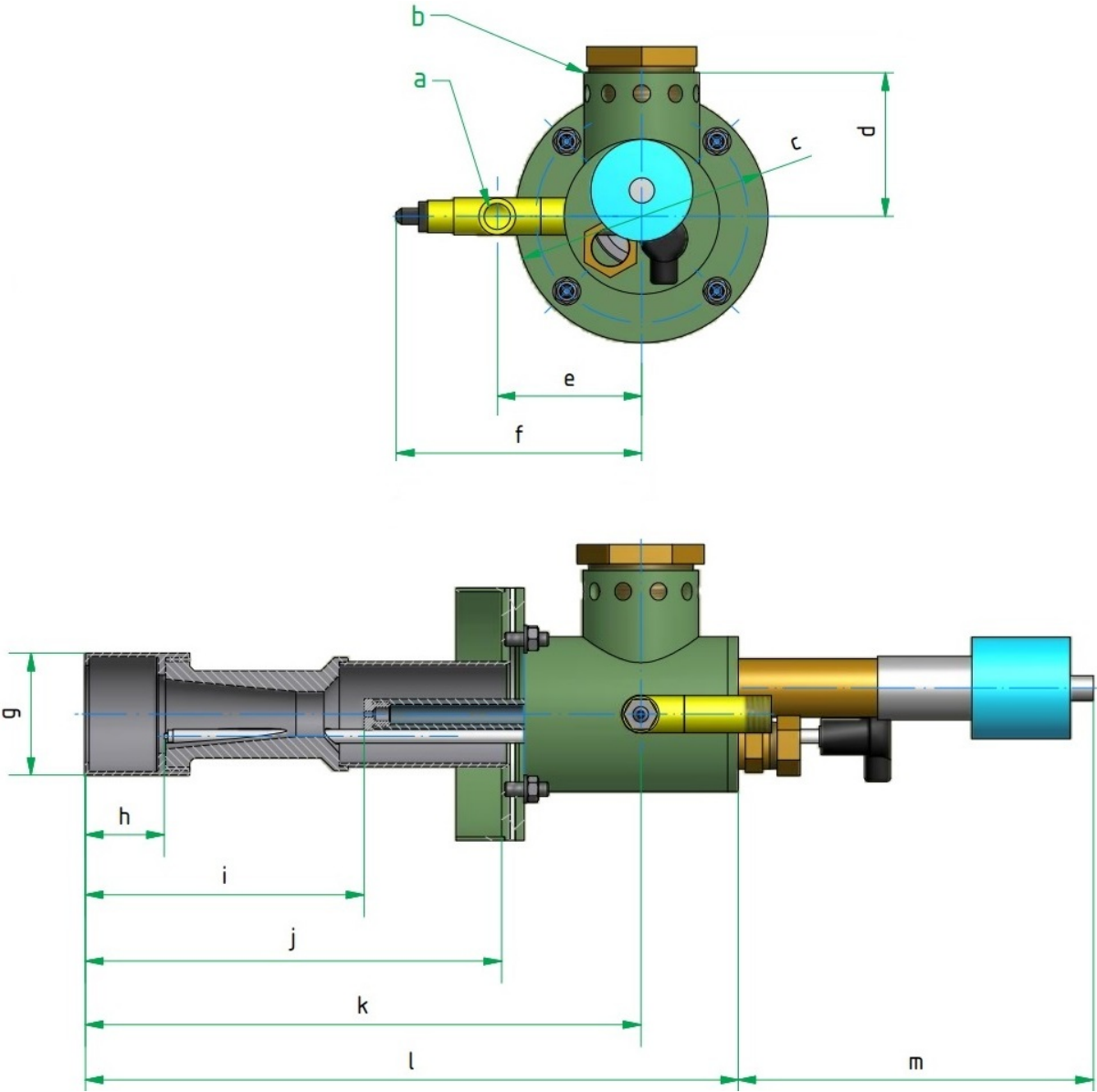
GPI-250 BURNER**Data Sheet**

The amount of primary air drawn from the surroundings by the burner can be adjusted using a multi-hole orifice plate installed in the burner body. When the secondary air temperature exceeds 800°C, the burner does not need to be equipped with an ignition electrode or a flame-shaping element. The flame can be visually observed through the sight glass located next to the UV detector.

The dimensions of the GPI-250 burner are shown in the drawing below.

GPI-250 BURNER

Data Sheet



Burner type	Dimensions, mm													Mass kg
	a*	b*	c	d	e	f	g	h	i	j	k	l	m	
GPI -250	1/2"	2"	89	83	83	123	70	46	160	240	319	375	-	5,2

GPI Burner Technical Data

Burner type	injector
Nominal thermal power	250 kW
Gas pressure at burner inlet	0,05 ÷ 1 bar
Power adjustment range	dependent on gas pressure
Ignition	spark
Flame monitoring	UV detector

Materials

- ✓ Body: structural steel – surface protected against corrosion
- ✓ Gas nozzle: stainless steel
- ✓ Mixer: stainless steel
- ✓ Flame-shaping element: heat-resistant steel

Applications

Gas combustion in secondary air with a deficiency of primary air, e.g. in heating chambers of ring furnaces.