

SOLUTIONS FOR THE GLASS INDUSTRY

BURNER OXY-GAS

BR-0X 200 BR-0S 500





GENERAL DESCRIPTION

Oxy-fuel combustion systems are now a practical and well tested application for use in glass melting furnaces.

Glass Service has developed the technology and have supplied a number of complete oxy-fuel combustion systems to glass manufacturers.

Glass Service designs and supply oxy fuel burners for low pressure gas and oxygen and for low and high flow rates.

All **Glass Service** burner designs have low momentum flames without any peak temperature.

This special design feature for glass melting furnaces avoids localised high temperatures on the furnace crown and the potential to create rat holes.

The burner radiation is concentrated in the visible spectrum range improving the radiated energy transmission to the melted glass and the furnace efficiency.

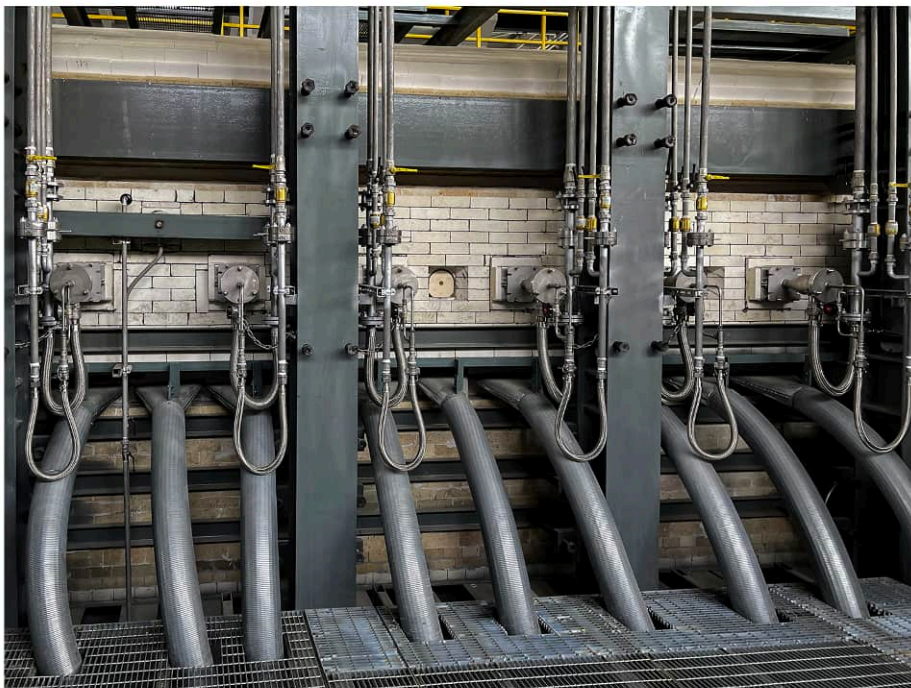


OXY-GAS BURNEER



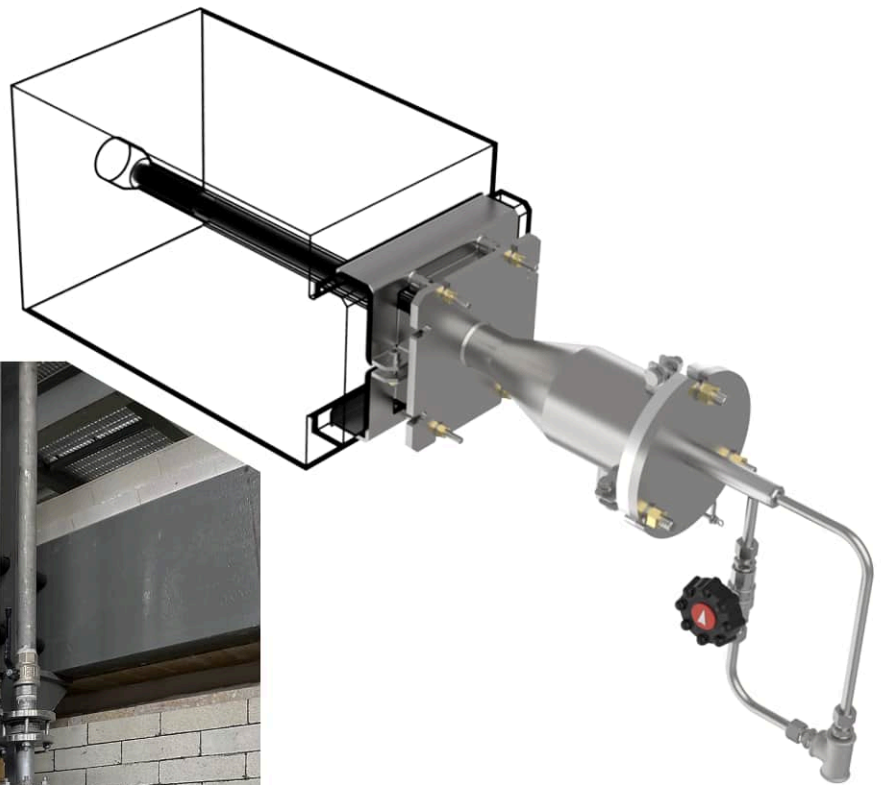
TECHNICAL FEATURES

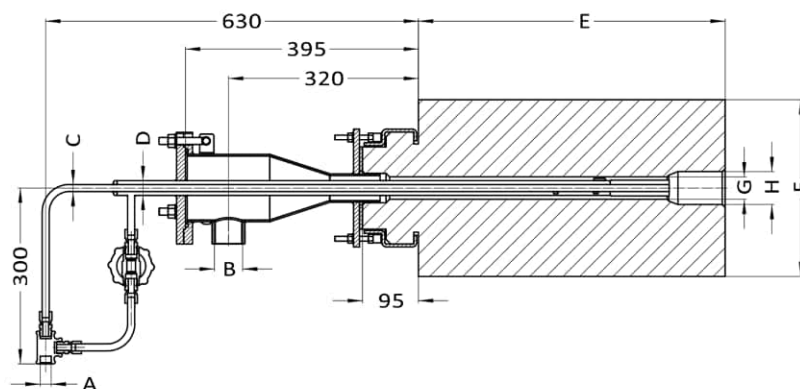
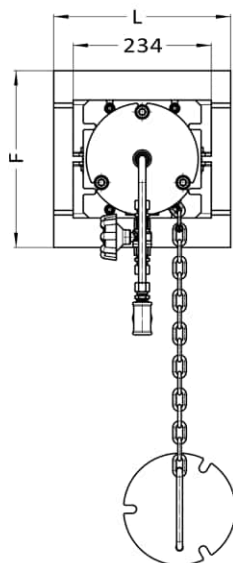
- ✓ High temperature operation
- ✓ Low momentum burners
- ✓ High flame radiation in visible spectrum
- ✓ Stepless external regulation of the flame length
- ✓ Easy removal of burners for maintenance



OPERATING PRINCIPALE

- ☑ Low flame momentum
- ☑ Easy removal for maintenance
- ☑ Compressed air cooling for burner shut off
- ☑ Burner block material AZS 31%

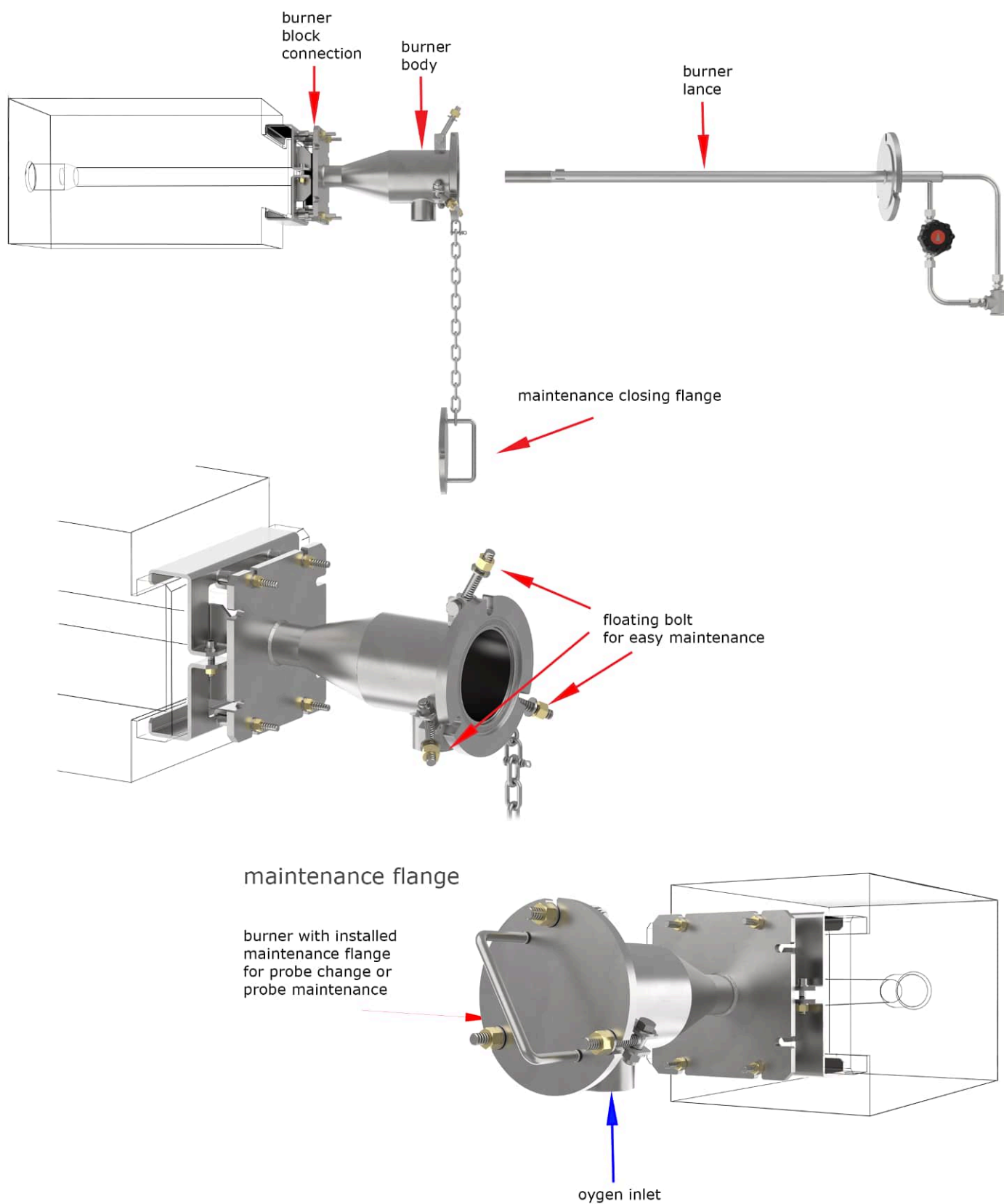




Feature \ Model			BR-OX 200	BR-OX 500	
Power		kW	200	500	
Range ability			1/3	1/3	
Oxygen ratio range			2-3	2-3	
Flame length		m	0,5 ÷ 2	0,5 ÷ 3	
Furnace temperature		°C	1300 ÷ 1600	1300 ÷ 1600	
Natural gas flow	min	Nm³/h	7	15	
	max		20	50	
Natural gas pressure large nozzle flow 100% little nozzle flow 0%		mbar	20	20	
Natural gas pressure large nozzle flow 0% little nozzle flow 100%			60	100	
Natural gas low calorific value		Kcal/Nm³	8500		
		kW/Nm³	10		
Natural gas density		kg/Nm³	0,71		
Oxygen pressure input		mbar	20		
Oxygen density		kg/Nm³	1,43		
A			½” BSPP femal	½” BSPP femal	
B			1” ½ BSPP femal	1” ½ BSPP femal	
C	OD x ID	mm	12/9	14/11	
D			25/20	30/26	
E	standard		520		
	range		230 ÷ 660		
F	standard		300		
	range		230 ÷ 400		
G				38	57
H				56	86
L				300	



MAINTENANCE PROCESS





CUSTOMERS WORLD WIDE

VV-22-01-E



PRODUCTS AND SERVICES

turn key projects

batch plants

furnaces:

recuperative

regenerative

gas fired

oil fired

oxy-fuel fired

mixed fuel

electric

forehearth:

colouring forehearth

combustion systems

day tanks

mini melters

boosters

bubblers

metallic recuperators

batch chargers

stirring machines

glass level controls

frit dosing and transport

control cabinets

SCADA and DCS

cooling systems

Services:

installation and supervision

commissioning

training

preheating

technology transfer

assistance

laboratory and analysis

refractory consulting

project financing