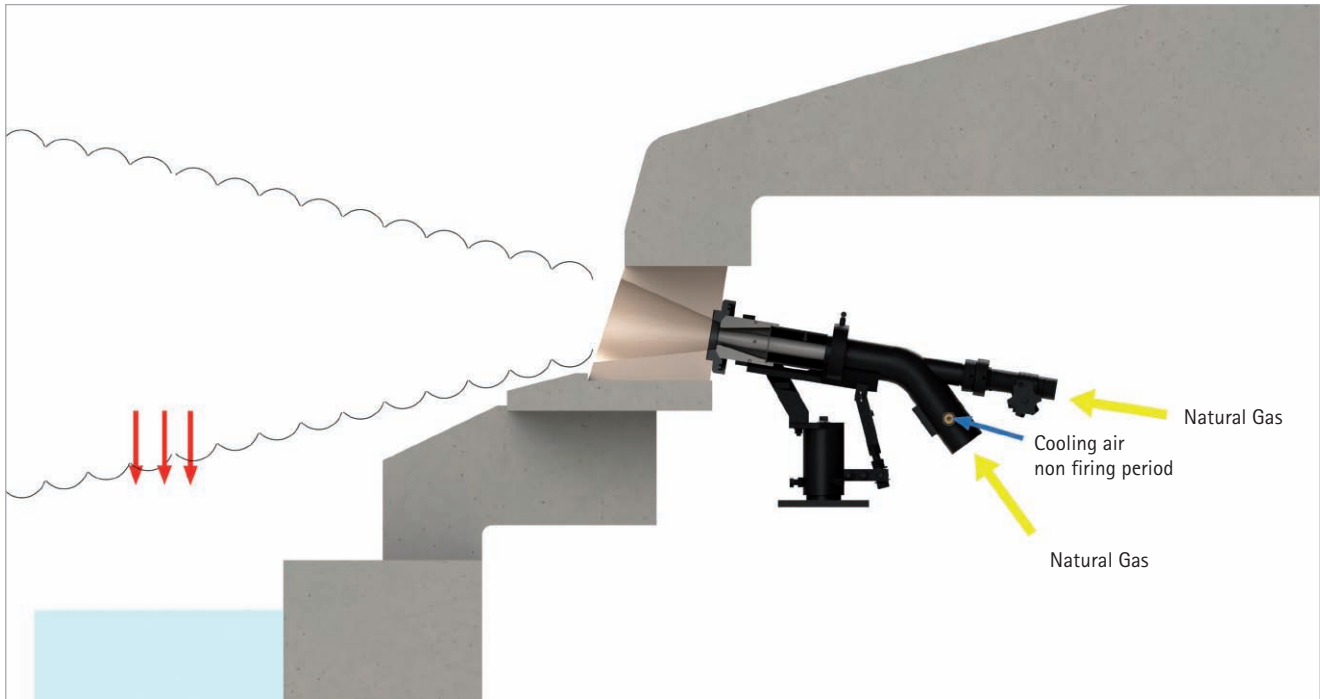


FT FLEX INJECTOR

Underport burner

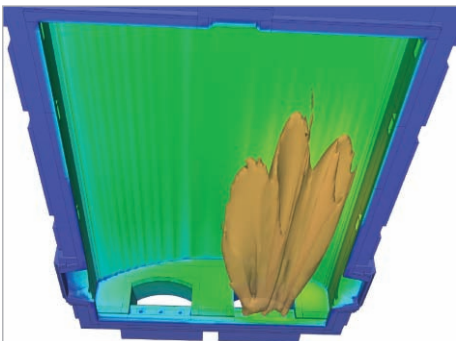


Technical Data

- Fuel: Natural Gas, LPG and Propane
- Energy output:
 - S (0,3 – 1,5 MW)
 - M (1,1 – 4,4 MW)
 - L (3,6 – 8,0 MW)
- Cooling air: $\geq 0,4$ bar (non-firing period)
- Socket plate cooling air: ≥ 2 Pa , 300 Nm³/h (continuous)

Technical Concept

- Applicable underport firing for regenerative cross-fired and end-port furnaces
- Conventional burners with cast iron plate and nozzle block arrangement
- Twin nozzle concept with two independent gas streams
- Both gas streams are fully controlled with manual control valves
- Low gas velocities result in very low maximum flame temperature
- Inner nozzle position adjustable in wide range
- Easy burner angle adjustment



Advantages and benefits

- High luminous flame with low NO_x level through excellent heat transfer
- Flexible burner with tunable flame in a wide range of performance
- Should fit into existing bracket and socket plate
- Two gas streams are separated completely with the possibility of remote flame length and shape control
- Better heat transfer from flame to glass surface enable excellent efficiency and low specific energy consumption (less than 5,5 GJ/ton molten glass)

Scope of supply

- Flex Low NO_x gas injectors operated \pm 30% of nominal capacity
- Fully adjustable injector brackets
- Socket plates
- Stainless steel flexible hoses
- Gas spool enabling full control of flame shape and length
- Tailor made check valves

Options

- Optimization of melting process, using CFD simulation
- Renting and maintenance contract
- Port design optimization
- Regular service during and after warranty period
- Control panels & safety trains delivery