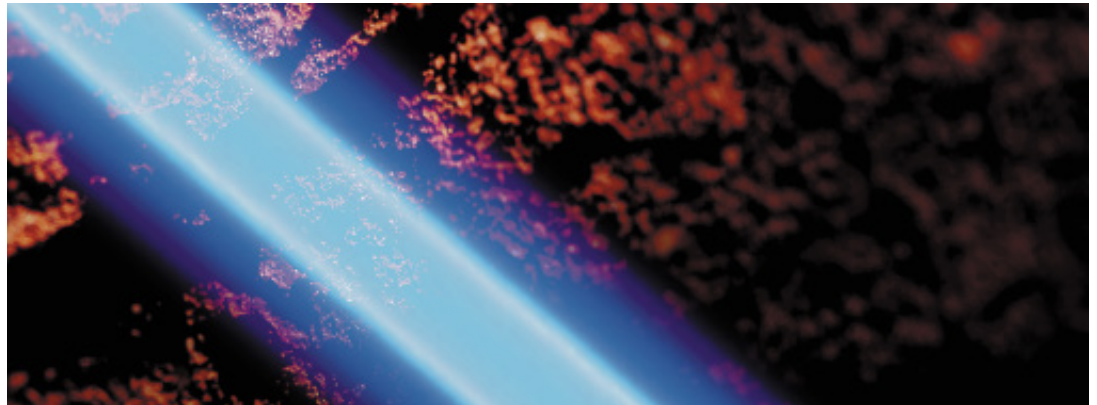




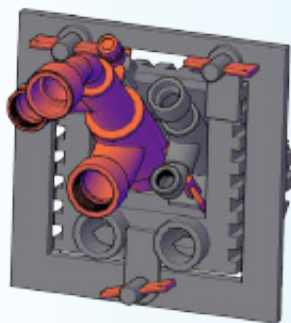
COJET® Flame Guard Panel

The COJET flame guard panel has been developed to provide an option for mounting of COJET injectors to minimize interference with the refractory lining in electric arc furnaces, as well as interference with structures on the outside of the furnace. The panel has been successfully tested and is currently operating on multiple furnaces.

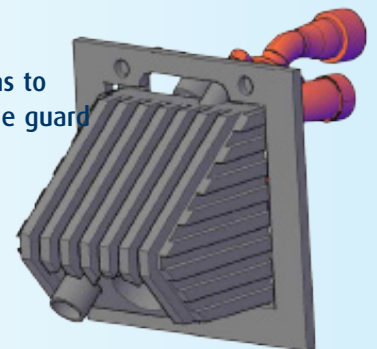


- Features**
- A wedge-shaped design that protrudes far enough into the furnace to clear the refractory lining, but not far enough to make it susceptible to damage from falling scrap.
 - Fits into the same opening as our standard 12" by 12" panel, so it can be retrofitted into existing furnace panels.
 - Designed using extensive CFD modeling to ensure that maximum cooling is applied to areas exposed to the greatest heat load.
 - The compact design allows for easy installation and removal of both the panel and the injectors even in locations restricted by the furnace cooling and support system.
 - Redesigned COJET injector is provided with curved fittings that simplify hose connections.
 - Weighs only 180 pounds.
 - Designed with "slag catcher" surface that promotes a protective coating of slag.

Front face of COJET flame guard panel



Back face showing connections to COJET flame guard panel



- Advantages**
- Customary high decarburization efficiency
 - Broad burner capabilities
 - Low maintenance, extended life
 - Added improvement in refractory life
 - Allows for panel assembly to be located higher in the furnace
 - Reduced impact of steel bath turbulence helps maintain injector nozzle integrity

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