

NEG Oxy-fuel Combustion(NOFC™)Technology

- Combustion system made by glass manufacturer -



Nippon Electric Glass



NEG was the pioneer company in Japan to successfully introduce oxygen-combustion technology (NOFC™:NEG Oxy-Fuel Combustion)to glass melting furnaces. By utilizing NOFC™ technology, which has been accumulated through more than 30 years of experience, NEG contributes to the reduction of fuel consumption and CO₂ emissions.

Benefits of Oxy-Fuel Combustion

- **Improved Combustion Efficiency**
:Reduces fuel consumption approximately 50%, (reduction of 50% fuel CO₂).
- **Increased Flame Temperature**
:Increases flame temperature by approximately 800K, ensuring efficient combustion.
- **Reduced Exhaust Gas Emissions**
:Reduces exhaust gas emissions by up to 50%, reducing environmental impact.
- **Reduced Nitrogen Oxides (NOx) Emissions**:Reduces NOx emissions significantly.

Features and Benefits of NOFC™ Burners

- High luminosity and high flame radiation
- Easy to maintain
- Wide range lineup: 50kW - 2500kW
- Wide turndown ratio (3:1)
- Improved heat distribution with wide flame (Type-R)
- Good flame stability (Type-C)



Type-C

Burner Lineup



Type-R

Model		Firing Range Turndown ratio (3:1)	Unit	Burner Type	Burner Block
Type-C	C25	97 ~ 291	kW		
	C50	194 ~ 582			
	C100	388 ~ 1,163			
	C150	582 ~ 1,764			
Type-R	R12	46 ~ 139	kW		
	R20	77 ~ 232			
	R40	155 ~ 465			
	R60	234 ~ 696			
	R80	310 ~ 930			
	R220	853 ~ 2,560			

