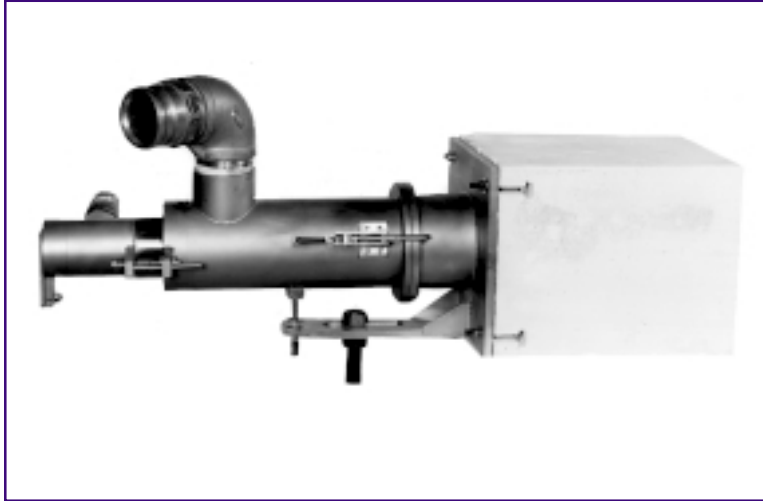

Primefire[®] 100 Series Burners

Oxygen-Fuel Fired Combustion Systems



*Combustion Tec's
Primefire[®] 100
Series Burner*

The Primefire[®] 100 is Combustion Tec's standard oxygen-fuel burner. It has become the industry standard—providing greater flexibility, extended fuel firing capacity, increased melter efficiency, improved refractory life, and reduced melting cost!

The Primefire[®] 100 oxygen-fuel burner produces a conventional shape flame and has multiple-fuel capabilities (natural gas and light/heavy oils). The Primefire[®] 100 burner is currently in use at many glass and high temperature furnaces worldwide.

Design Features

- Long and Lazy Flame
- High Flame Luminosity
- Lower Flame Temperature
- Adjustable Flame Shape
- Lower Emissions (NO_x and Particulates)
- Uniform Heat Distribution
- No Maintenance Design
- Ideal for On-the-Fly Applications
- Proven Field and Laboratory Performance

Oil-Burning Design Features

- Lower Atomizing Oxygen or Compressed Air Pressure Requirements
- Lower Precombustor (Burner Block) Operating Temperatures
- Lower Burner Nozzle Operating Temperatures
- Clean and No-Maintenance Design
- Switch from One Fuel to Another in a Few Minutes
- Common Burner and Burner Block Components
- Extended Turn-Down Ratio



Primefire® 100 Series Burners

Oxygen-Fuel Fired Combustion Systems

The adjustable Primefire® 100 burner is available in four capacity ranges:

- 0.25 to 1.00 MM Btu/Hr
- 0.75 to 3.00 MM Btu/Hr
- 2.00 to 8.00 MM Btu/Hr
- 5.00 to 20.00 MM Btu/Hr

As shown in Figure 1, the Primefire® 100 burner has multiple-range capabilities. The adjustable control on the burner allows variation in flame coverage to suit melter size and temperature profile. The higher firing range burner can be used in float glass furnaces. Many major float companies have used the Primefire® 100 successfully for up to a five percent increase in overall production.

Client Usage of Combustion Tec's Oxygen-Fuel Furnaces

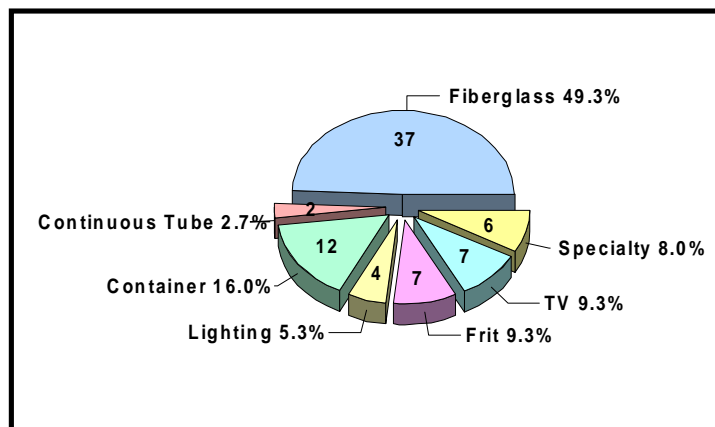


Figure 2. Client Usage of Combustion Tec's Oxygen-Fuel Furnaces

Visible Flame Length Combustion Tec and Field Oxygen-Gas Firing Data; Various Burner Sizes and Nozzles

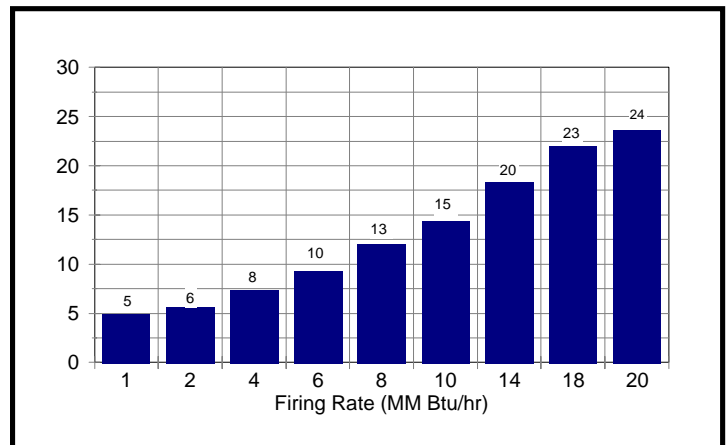


Figure 1. Visible Flame Length (in Feet) of the Adjustable Oxygen-Fuel Burner

As shown in Figure 2, the Primefire® 100 burner is used in all segments of the glass industry. Applications for the burner have also been found in other high temperature furnaces such as copper and frit melting. The Primefire® 100 burner is also in high demand in areas of the world where heavy fuels are commonly used. Additionally, the burner is well suited for dual fuel applications.

For further information on Primefire® 100 Oxygen-Fuel Burners, contact:



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