OXYGEN MEASUREMENT IN REHEAT FURNACES

UNI SENSOR OMD 1700 Oxygen Analyzer is an In-Sıtu type Oxygen analyzer which is used to optimize combustion by measuring the Oxygen levels inside the flue gases.

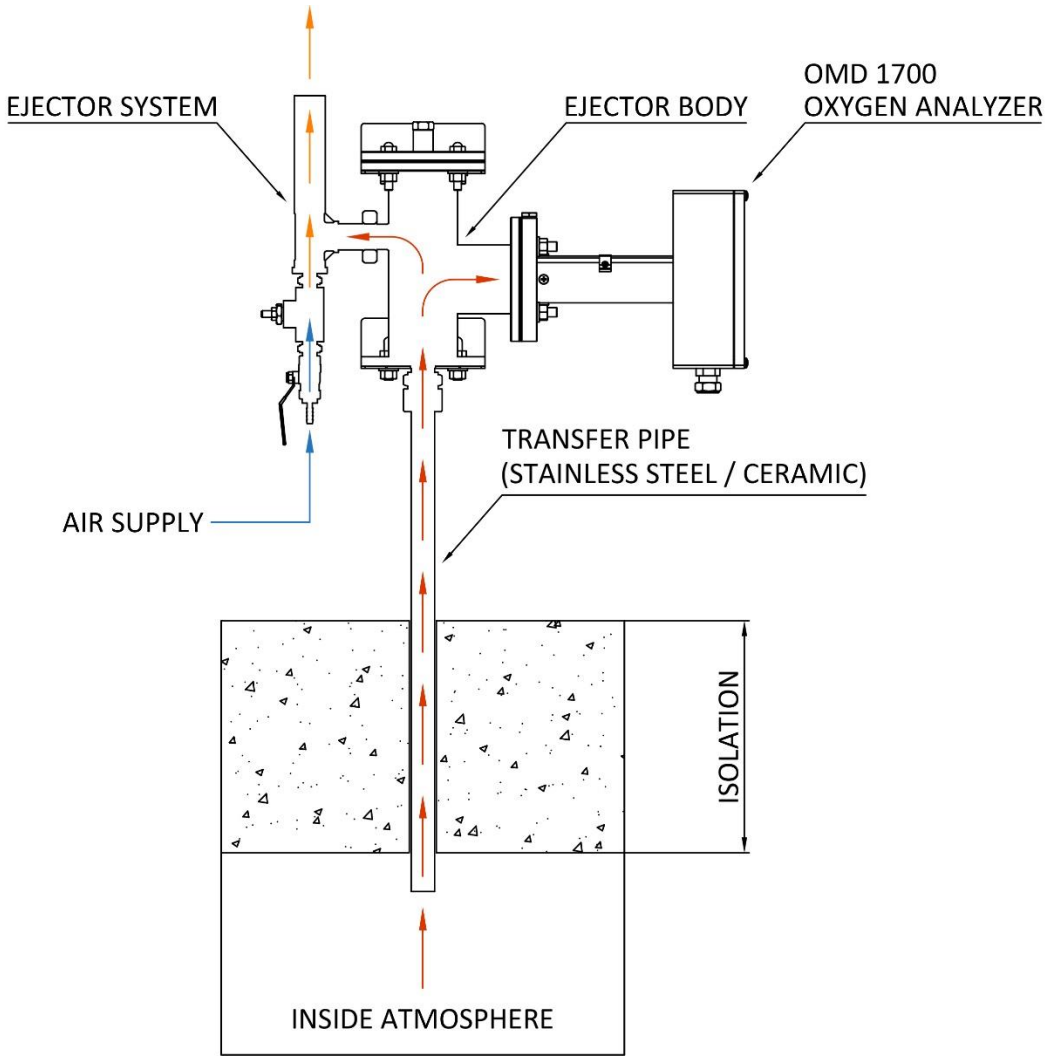
With measuring Oxygen levels, fuel/air ratios of the burners are adjusted or Oxygen trim control is made**. Significant amount of fuel savings, reduction in flue gas emissions and increase in plant service life are achieved.**

- ✓ **Long Service Life**
- ✓ **Proper Prices**
- ✓ **Delivery From Stock**

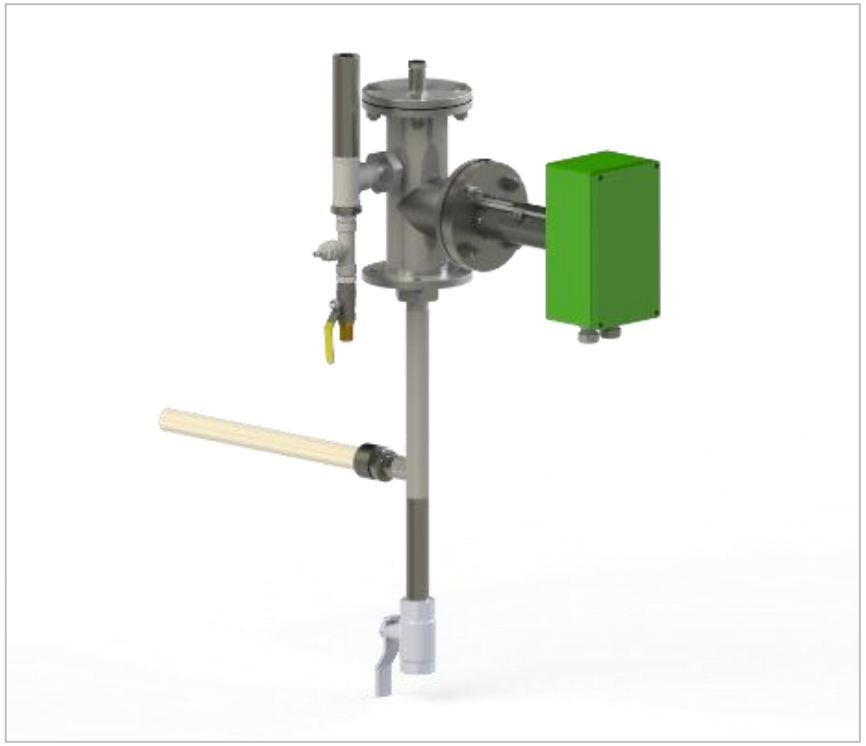
WORKING PRINCIPLE
OMD 1700 OXYGEN ANALYZER

OMD 1700 Oxygen Analyzer works with a Zirconium Dioxide (ZrO2) Oxygen Sensor. Integrated ejector system directs the flue gases towards the sensor. Sensor measures the Oxygen levels and transmit them to other systems via 4 - 20 mA output signal.

Measuring Range:	0 - 25 % O_2
Power Supply:	24 V DC, 3A
Output Signal:	4 - 20 mA
Ambient Temperature:	-10 .. 50 °C
Accuracy:	1 %
Reaction Time:	< 4 s
Manual Calibration:	Available



AVAILABLE MODELS FOR REHEAT FURNACES

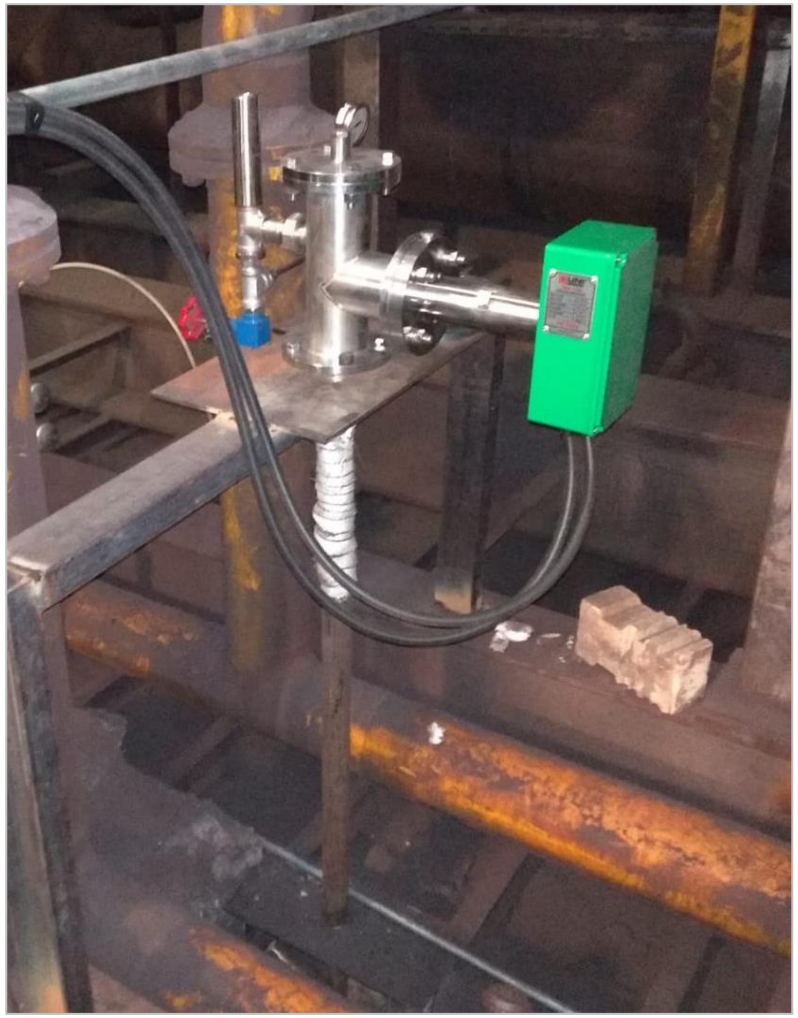


OMD 1700 - CER

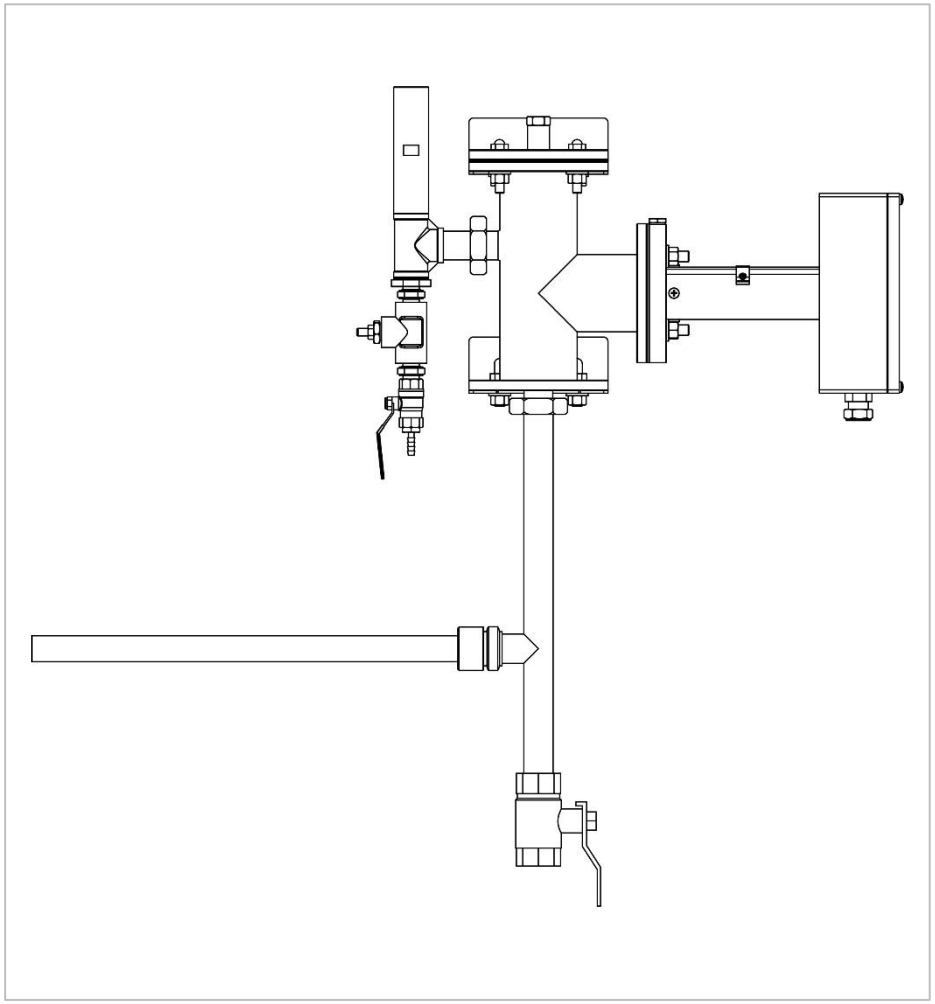
Ejector System

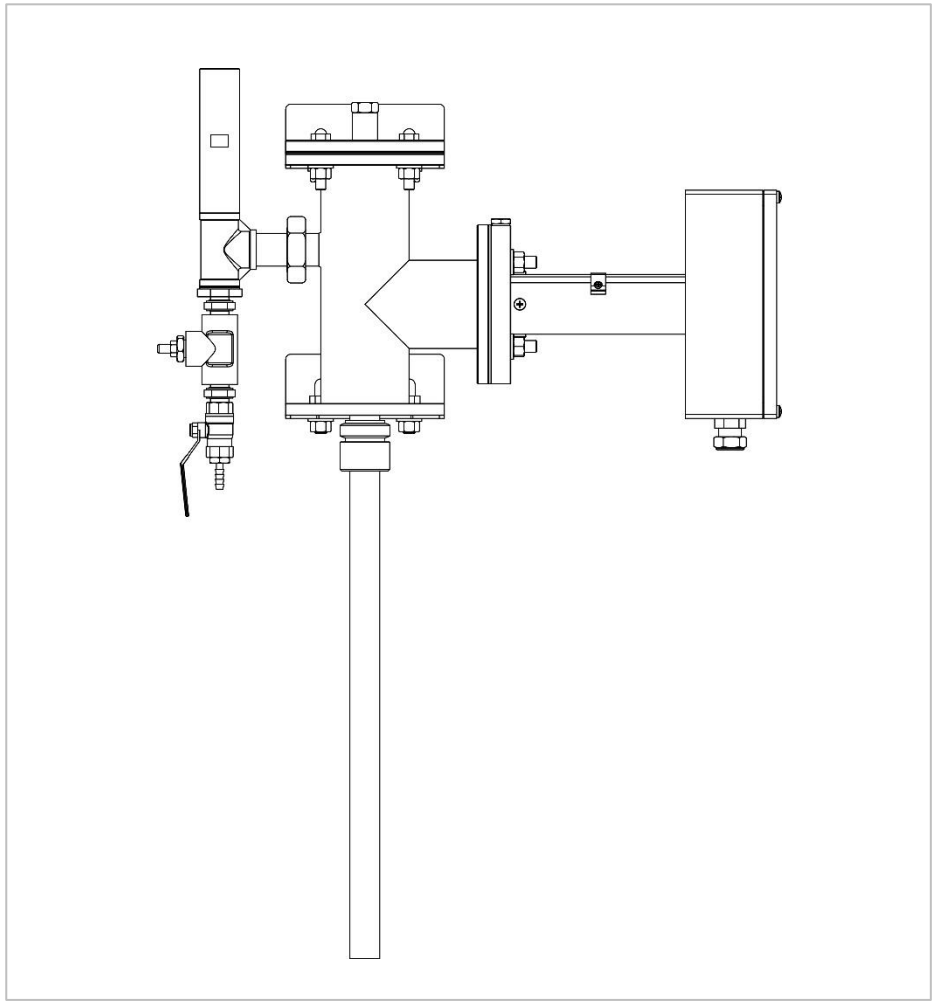
Ceramic Transfer Pipe

Max. 1400 °C



MOUNTING OPTIONS
VERTICAL & HORIZONTAL





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There are several locations in a reheat furnace to measure Oxygen levels. Such as,

- **Between Recuperator & Heating Zones**

  - Fuel / air ratio of the burners to be adjusted by measured Oxygen.

- **Heating Zones**

  - Fuel / air ratio of the burners to be adjusted by measured Oxygen.

  - More than one Oxygen analyzer can be used due to the number of heating zones.

- **Soaking Zone**

  - It is very important to measure the Oxygen in soaking zone to prevent scale formation.

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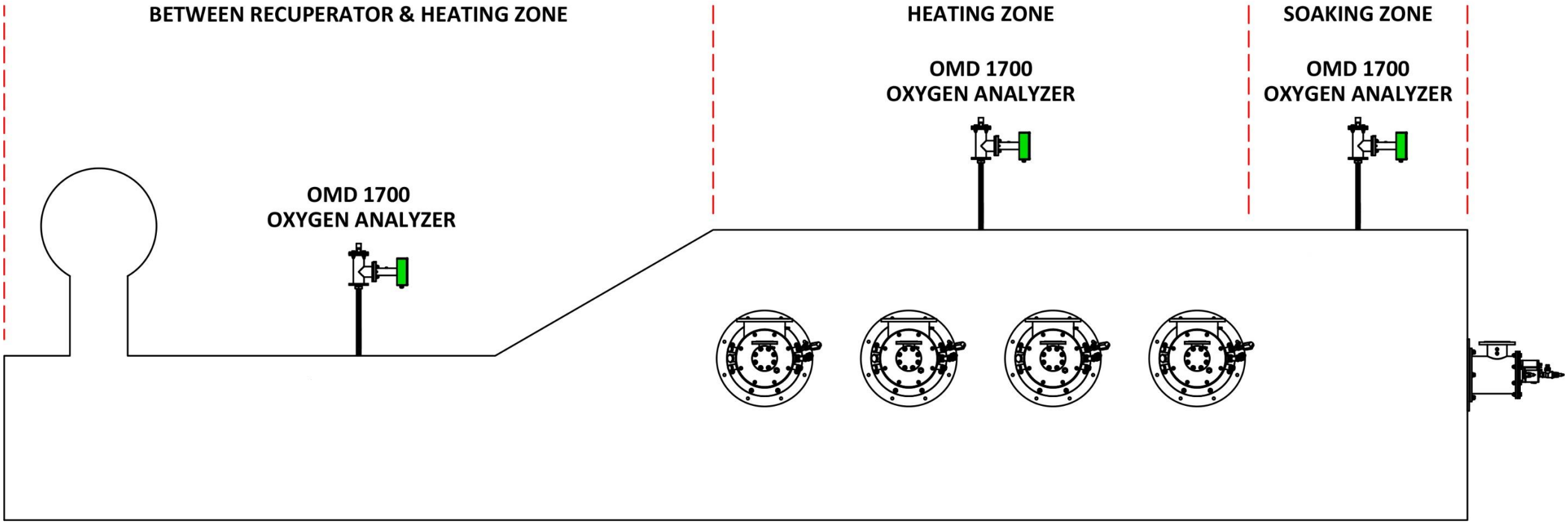

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