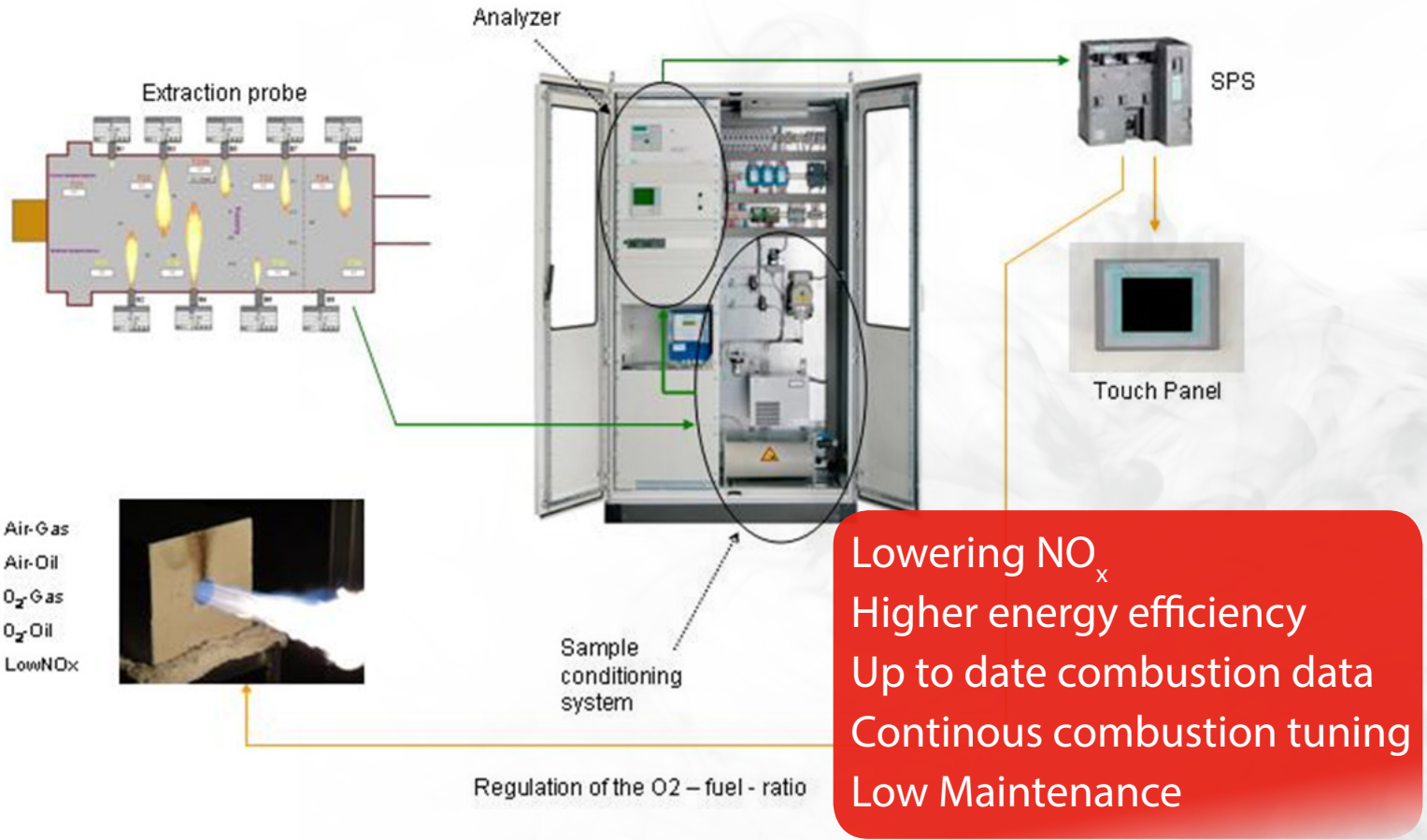


# Combustion Control - ENOx



Hotwork International developed the ENOx System technology in 1996. Since then systems are in operation continuously and at very low maintenance.

The ENOX System is used to automatically adjust the fuel - combustion air ratio. With this system we realize considerable reduction of  $NO_x$ , which results from the optimal combustion with a selectable excess air.

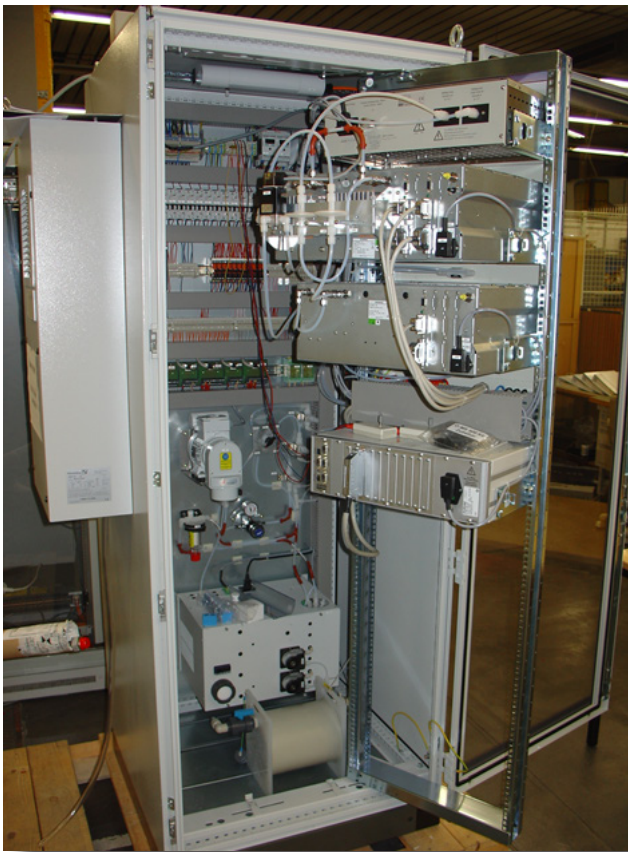
The air pressure variations that depend on atmospheric conditions (summer, winter, rain, sunshine etc.) and fluctuations of temperature, and related different oxygen content in the air will be automatically corrected.

All instabilities, e.g. due to changed calorific value or system displacement of combustible - air ratio, are not required anymore by a higher excess air coefficient. ENOX will compensate it automatically.

Excess air is reduced and leads to direct energy saving. There is no need anymore for a daily adjustments by the operator's personnel.  $NO_x$  values are stabilized in the lower level and the exhaust values are overall stabilized.

Hotwork and UAS specialised in supply of auxiliary equipment, including full gas control stations, furnace control system (DCS), full automation, exhaust gas analysis and Oxygen probes as well as tuning, supervision and commissioning services worldwide.



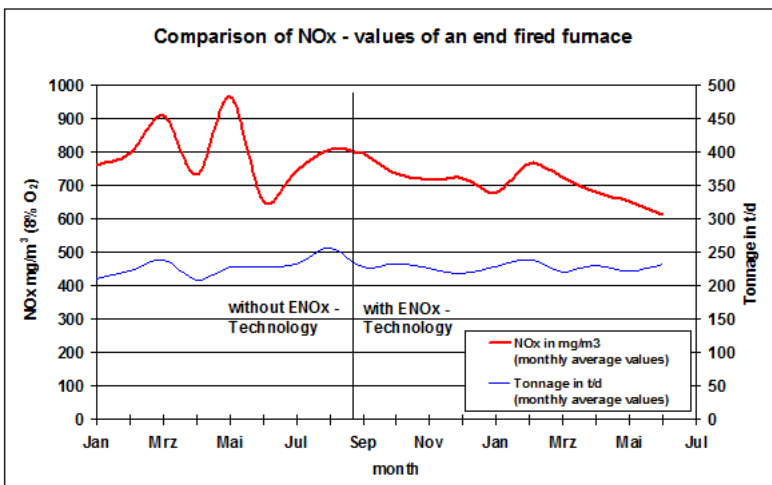


## Complete Supply Features:

- Exhaust gas sensors with ceramic filter
- Each Chamber equipped with 1 sensor
- Gas conditioning, condensate removal
- Gas analyser fully calibrated
- Long life sensors for CO, NO and O<sub>2</sub>
- SPS evaluation and processing unit
- Automatic ratio control
- Auto calibration system
- Mounted in a 19" rack

## Optional:

- NO<sub>x</sub> converter
- Integration in the existing PCS



The left shown figure shows and compares the NO<sub>x</sub> level on an end fired furnace before and after installing the ENOx System Technology. As the operator receives an up to date information of NO<sub>x</sub> formation and CO concentration just after the combustion in the furnace, he can adjust the Burner position, angle etc. for the best and lowest energy consumption and NO<sub>x</sub> levels.

*Swiss Quality and German Reliability .... complete engineering and supply*



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