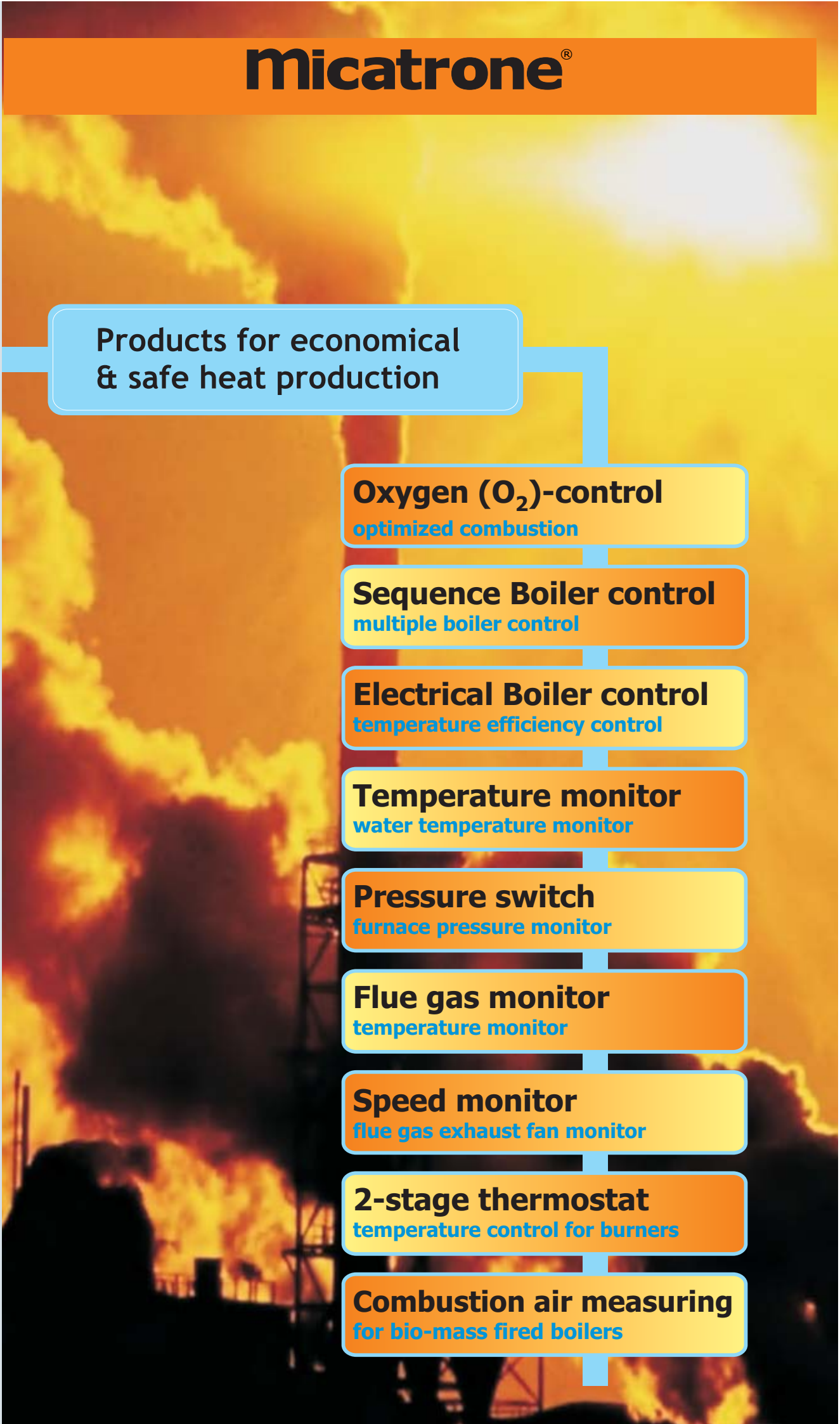
Micatrone®

HEAT PRODUCTION

System Application Components for heat production plants and boiler rooms



Products for economical & safe heat production

Oxygen (O_2)-control
optimized combustion

Sequence Boiler control
multiple boiler control

Electrical Boiler control
temperature efficiency control

Temperature monitor
water temperature monitor

Pressure switch
furnace pressure monitor

Flue gas monitor
temperature monitor

Speed monitor
flue gas exhaust fan monitor

2-stage thermostat
temperature control for burners

Combustion air measuring
for bio-mass fired boilers

- Control systems -

Industrial O_2-analyzer & controller for supervision and control of O_2-content in flue gas.

O_2-measurement/control

Sequence boiler selector for two or three connected boilers. Bio-mass fired, oil fired, gas fired or electrical.

MVP-300, Boiler Control

Controller for electrically powered boilers.
Programme each power stage for a selected load.

MEL-1000, El-boiler control

- Monitoring & Safety -

Max. temperature switch for monitoring of water temperature. Certified acc. to EG-type approval modul B and F.

MMT-1000, Temp.monitor

Pressure switch for monitoring of furnace pressure in combustion plants. Measures high, low or differential pressure.

MTV-2000, Pressure switch

Flue gas temperature switch, type HL for bio-mass fired boilers, type HH for oil- and gas fired boilers.

MI-4000, Temp. switch

Speed monitoring of flue gas exhaust fans, monitors rotation between 0,1 and 9999 rpm.

MN-1000, Speed monitor

Digital thermostat for control of stage burners.

MDT-2000, Thermostat

- Air volume control -

Action
The ducts are fitted with flow measuring sensors type MFS which create a flow dependent differential pressure. The measured differential pressure is converted with a suitable flow transmitter to a flow linear output signal. The control of the fans against a desired air flow can either be done with a local installed controller or through a PLC-system.

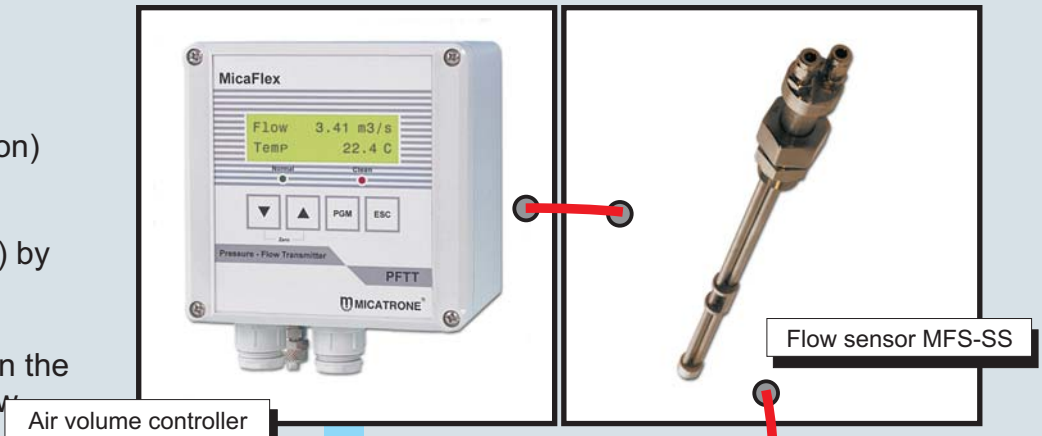
Flow monitoring
To secure the function of fans and peripherals, the difference between the measured flow and the set flow (capacity signal) are continuously monitored. At a set deviation an alarm signal can be obtained. This function could be monitored and controlled in a local device or by the PLC system.

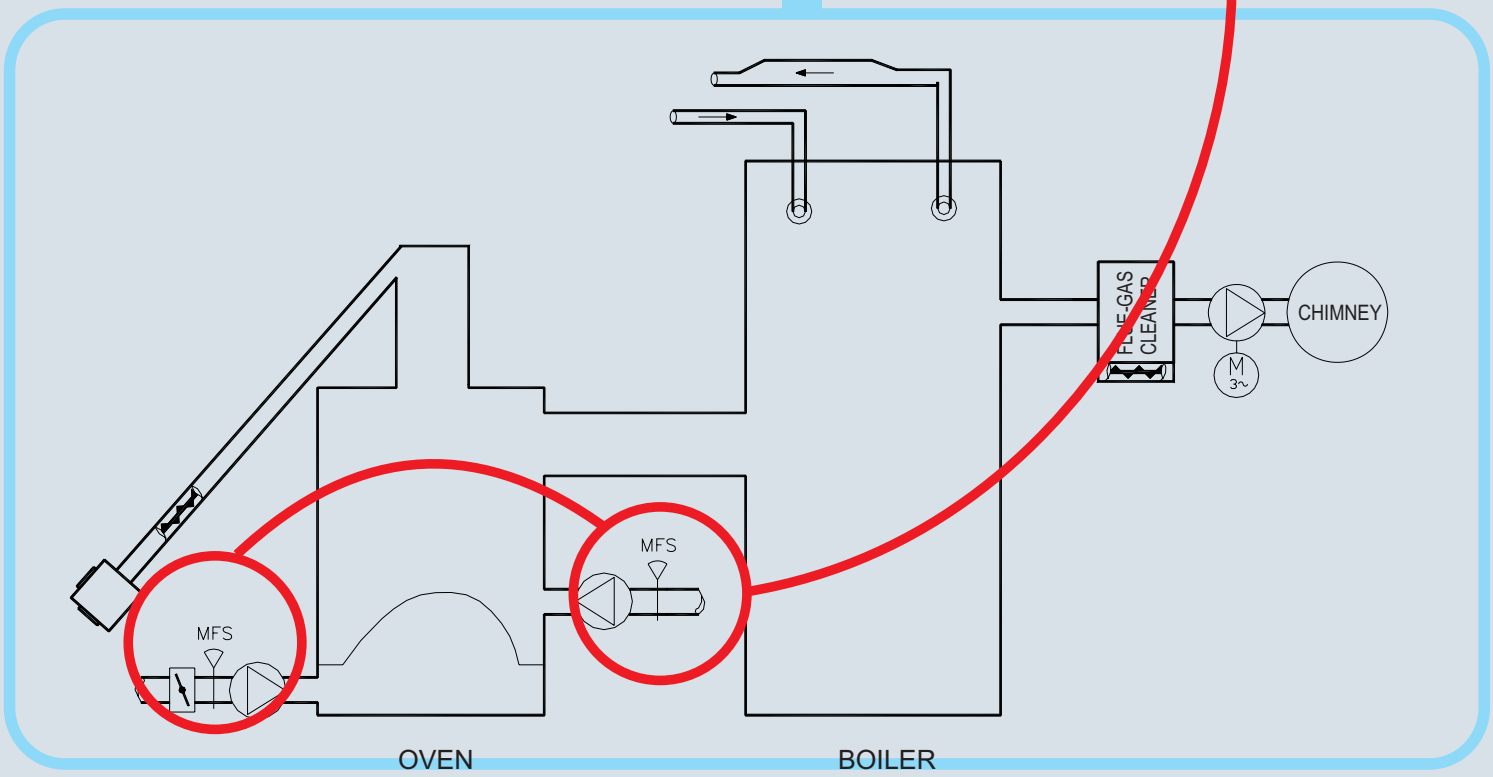
Advantages:

1. Always the same air-volume regardless of load (fuel injection)

2. Counteract poor efficiency (high O_2-content in flue gases) by blowing air through the oven.

3. Alarm if the difference between the measured flow and the set flow deviate





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