

Sarajevo, 02.01.2013.

The results from the first test function of FITCH catalysts for natural gas in Europe

Boiler: BUDERUS Logano G 215 Qn 43.3 kw

Burner: GIERSH RG1 – Nb Pn= 25 – 59 kw

Before installation of FITCH catalyst we measured combustion products with the measuring instrument TYPE: RBR – ECOM, and we got following parameters:

GAS PRESSURE	20 mbar
GAS FLOW	3.2 m ³ /h
AIR TEMPERATURE	21° C
TEMPERATURE OF EXHAUST GASES	138° C
O ₂	10.5%
CO	383 mg/m ³
CO ₂	6.1%
ETA	91.9%

Time needed to heat water in heating system from temperature of 50° C to 65° C, at the outdoor temperature of 3° C was 11 minutes.

After the installation of adequate FITCH catalyst, just after 5 minutes of working, we had a dramatic improvement of results in comparison to measurements without catalyst, and this applies in particular to the two segments:

1 - CO = 292 mg/m³ – that is 91mg/m³ less then initial state. It is very important to know that this was not preceded by any adjustments of input parameters – gas pressure, gas quantity and air quantity.

2 – Temperature of exhaust gases, from previous 138° C increased to incredible 173° C, so the difference in temperatures was 35° C.

All this points out that FITCH catalyst, in simple and in environmentally friendly way, increases the energy efficiency of natural gas and achieves great savings in the consumption of the gas.

After applied checks and monitoring of the boiler functions for 60 minutes, we had corrected the input parameters (minor correction of natural gas and major correction of gas flow) because of heat retention in burner chamber and after the parameter correction we performed final testing of combustion products and got following results:

GAS PRESSURE	20 mbar
GAS FLOW	2.8 m3/h
AIR TEMPERATURE	18° C
TEMPERATURE OF EXHAUST GASES	139° C
O ₂	7.4%
CO	38 mg/m3
CO ₂	7.9%
ETA	93.2%

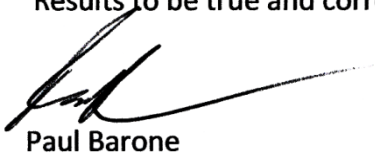
Time needed to heat water in heating system from temperature of 50°C to 65°C, at the outdoor temperature of 3°C was 7 minutes.

During the close work monitoring in next 7 days, “one day with FITCH catalyst -next day without” and taking into consideration all major factors (outdoor temperature, Δt, etc.) the savings in natural gas consumption were 11.4%.

CO reduction after boiler adjustment was an incredible 1000%

In my presence, I certify this data collected.

Results to be true and correct.



Paul Barone



Director GES d.o.o. Sarajevo

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Installation of Fitch Unit on boiler HO20UL



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