

# FAX

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## Re: Answers to questions on the Offis boilers

☐ Urgent ☐ For your review ☐ Reply ASAP ☐ Please comment

Idit,

The responses to your questions are below. My answers to the questions are based on my experience in boiler operations and from material provided by the Weishaupt company, which conducts research on boilers and boiler operations that can be used to understand other companies boilers.

### 1. Boiler efficiency

The boiler's efficiency is calculated based on losses from:

- a) the boiler stack
- b) energy delivery in the boiler's pipes (approximately 3%)

Oil boilers operate at around 85% efficiency. Steam boilers operate at around 87% efficiency. These change slightly depending on fuel use (heavy fuel Oil or biogas).

The charts I provided show how to get the boiler efficiency when the stack temperature and CO2 percentage are known.