

Waste heat utilization to improve the efficiency of a pellet heater





Circuit diagram of the optimized system

- Waste heat recovery in pellet heating systems for efficient use in detached and semi-detached houses
- Extraction of heat energy directly from the exhaust gas and simultaneous supply to the heating cycle
- Through the heat exchanger, residual energy is supplied to the inlet air
- Increase of the overall efficiency in continuous operation compared to a standard available system from the current 55% up to 95%
- Increasing the heat flow capacity of the system using heat recovery by an average of 10 kW
- Larger quantity of heat available with the same consumption of pellets respectively the same available amount of heat with less consumption of pellets



Efficiency curve during continuous operation



WätaS Wärmetauscher Sachsen GmbH

Lindenstraße 5 • 09526 Olbernhau • Phone: +49 37 36 0 - 69 49-0 • Fax: +49 37 36 0 - 69 49-69 E-Mail: info@waetas.de • Internet: www.waetas.de