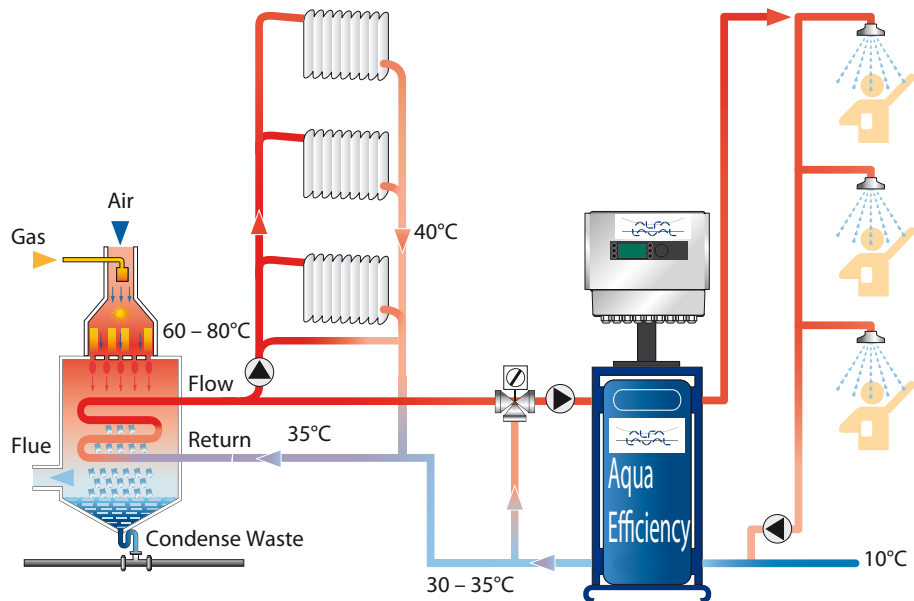


# 'AquaEfficiency'

– an energy-efficient solution for tap water heating



AquaEfficiency.



Working principle of AquaEfficiency.

**A**quaEfficiency – Alfa Laval’s latest innovation in the area of tapwater heating for collective applications – is the most energy-efficient solution available in the market. Compared with other offerings in the market, an AquaEfficiency system can save energy up to EUR 2,200 annually which means that the pay-back period of the extra cost for an AquaEfficiency is less than one year.

### Avoiding off-peak waste

AquaEfficiency is based on Alfa Laval’s well-proven ‘AquaFlow’ and ‘AquaStore’ tapwater heaters. These systems have been equipped with new variable-speed pumps and a new, advanced system controller. The controller reacts on variations in the outgoing water temperature (within 1-2°C) and adjusts the pump speed accordingly. At every moment, the controller selects the optimum combination of pump speed and valve aperture to achieve the most effective adjustment.

### Recovering condensation heat

Condensing boilers are rapidly becoming the norm for space and tapwater heating in Europe. However, with



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return temperatures from the heat exchangers typically in the 45-55°C range, the condensing potential is largely wasted. AquaEfficiency, therefore, uses a second sensor to monitor the return temperature and maintain it at 35°C or lower during tapping periods, which is ideal for condensing boiler heat. By recovering this heat, valuable energy can be saved.

Alfa Laval has patented this dual-sensor approach to simultaneously controlling pump speed and return temperature. AquaEfficiency really seems to be the right product introduced at the right time.

**More information :** [www.alfalaval.com](http://www.alfalaval.com)

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