



We use our proprietary process both for scheduled plant overhauls and in case of incidents

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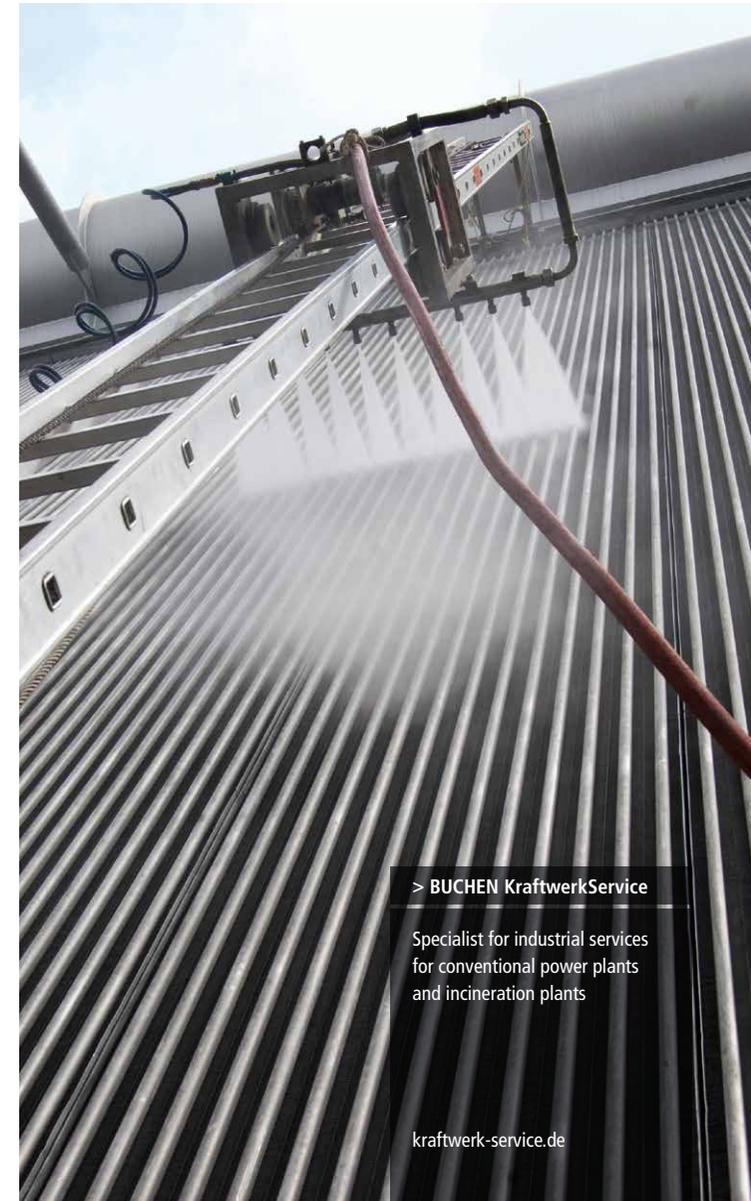
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Air cooler cleaning



> **BUCHEN KraftwerkService**

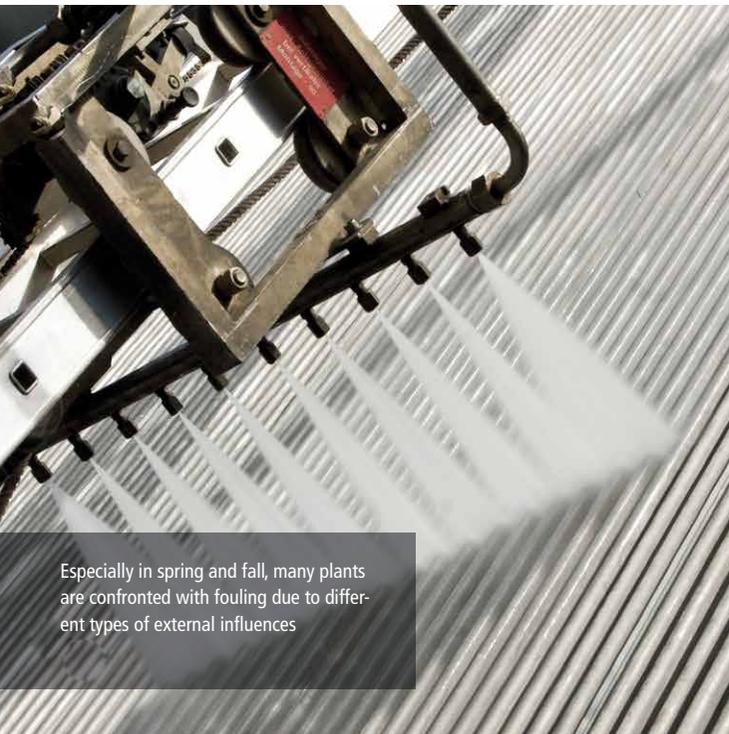
Specialist for industrial services for conventional power plants and incineration plants

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Air coolers and air-cooled condensers

In waste incineration plants, fuel surrogate- and biomass power plants, air coolers and air-cooled condensers are used for recondensing the feed water. These are upright heat exchangers featuring finned tubes for cooling the medium through a heat exchange with the surrounding atmosphere.

Fouling reduce the heat transfer rate, which impedes the condensation process and reduces the power plant efficiency.



The process

BUCHEN KraftwerkService developed a special semi-automated high-pressure cleaning method for cleaning these sensitive systems gently and efficiently. Using a combined ladder and slide system with 15 to 30 nozzles, large areas of the air-cooled condenser can be cleaned automatically, simultaneously and very precisely.

Unlike any manual high-pressure cleaning method, the water penetrates the lamellae material-friendly, at a constant distance and angle, thus removing the residues. Through this, even obstinate residues can be removed from areas that are difficult to reach.

The precision work is performed with a semi-automatic method where the cleaning slide is remote-controlled by qualified staff. The fast and highly effective cleaning method increases the heat transfer rate of the air-cooler, and thus the efficiency of the power plant.

> Advantages:

- Significant efficiency increase
- Reduction operating costs
- Optimum cleaning
- Less time required for cleaning
- Higher efficiency factor
- Material-friendly
- Thanks to the high number of nozzles, a larger area can be cleaned at the same time

If soiling and fouling are not removed from the plants, the air coolers and air-cooled condensers will be less efficient, which results in higher energy consumption and, as a result, higher expenses. The cleaning costs will amortise very quickly by providing an improved efficiency for the plant.