



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

© 2023, BUCHEN EnergyServices GmbH

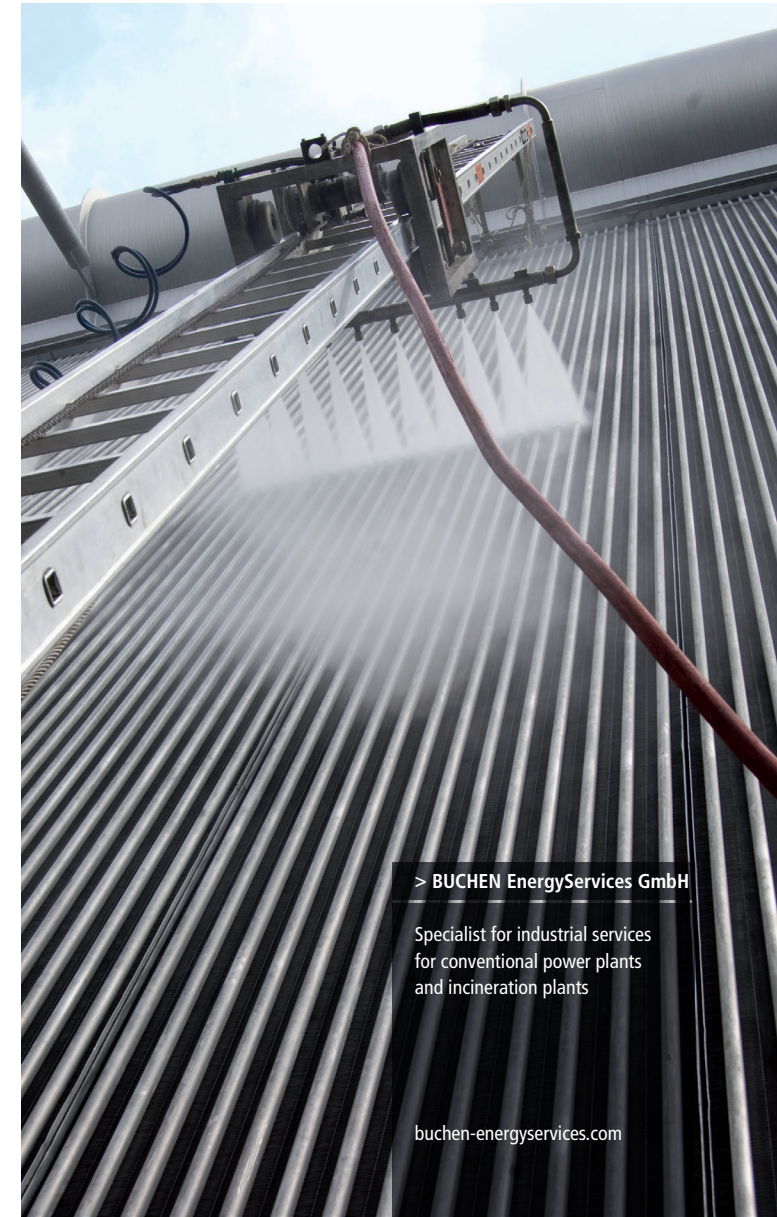
BUCHEN®
WORKING FOR THE FUTURE

BUCHEN is part of the REMONDIS group, one of the world's largest recycling, service and water companies. The company group has branches and associated businesses in more than 30 countries across Europe, Africa, Asia and Australia. With over 40,000 employees, the group serves around 30 million people as well as many thousands of companies. The highest levels of quality. Working for the future.

BUCHEN EnergyServices GmbH
Schloßstr. 36
44653 Herne // Germany
T +49 2325 3729-0
F +49 2325 3729-219
vertrieb.bes@buchen.net
buchen-energyservices.com
A company of the REMONDIS Group

BUCHEN®
WORKING FOR THE FUTURE

Air cooler cleaning



> **BUCHEN EnergyServices GmbH**

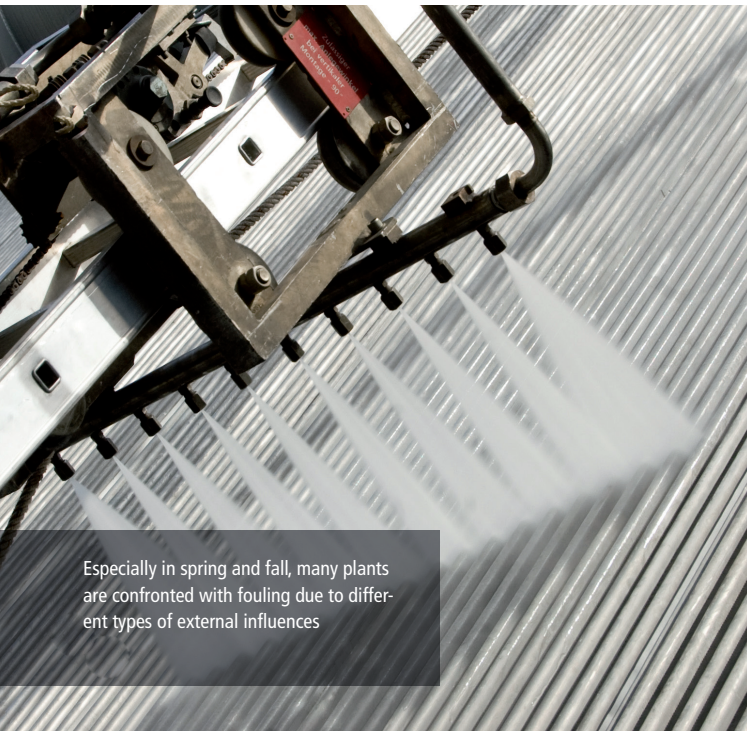
Specialist for industrial services
for conventional power plants
and incineration plants

buchen-energyservices.com

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 EnergyServices 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.