



Air preheater in a combined cycle power plant

Power plant, Asia

Case story



Four DuroShell heat exchangers are operating as air preheaters in an Asian combined-cycle power plant. Heating the incoming air has several positive effects, such as improved mixing of fuel and compressed air, which in turn leads to more stable combustion.

Thanks to the preheating, the burners in the gas turbine can operate under equal conditions and at the highest efficiency, which minimizes NOx and CO emissions. In addition, the burners can be controlled by one control signal and no longer need to be controlled individually.

By using DuroShell instead of shell-and-tubes, the power company gets a very compact solution that was easy to install. The ability to operate with crossing temperatures and a small temperature approach means DuroShell maximizes the heating of the incoming air.

Results

- Maximum combustion efficiency and low emissions of NOx and CO
- Compact solution and low installation costs
- Maximum preheating of the incoming air



DuroShell RollerCoaster

Robust and efficient performance.



DuroShell PowerPack

Optimized flow distribution and fatigue resistance.

Learn more at www.alfalaval.com/duroshell

Why Alfa Laval DuroShell

Maximize uptime

- High reliability and fatigue resistance
- Minimal maintenance

Cut costs

- Low investment cost
- Minimal energy consumption
- Reduced maintenance costs

Increase capacity

- DuroShell's compact size and high thermal efficiency make it easy to increase capacity to solve heating and cooling limitations

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com.

Alfa Laval reserves the right to change specifications without prior notification.

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