

Economizers for medium and large size boilers

Due to their high efficiency, low pressure drop and compact design, the Airec heat exchangers are the optimal solution to recover waste heat from boilers, increasing their efficiency nearly to 100%.

Example from Guangyuan area, Beijing (China)

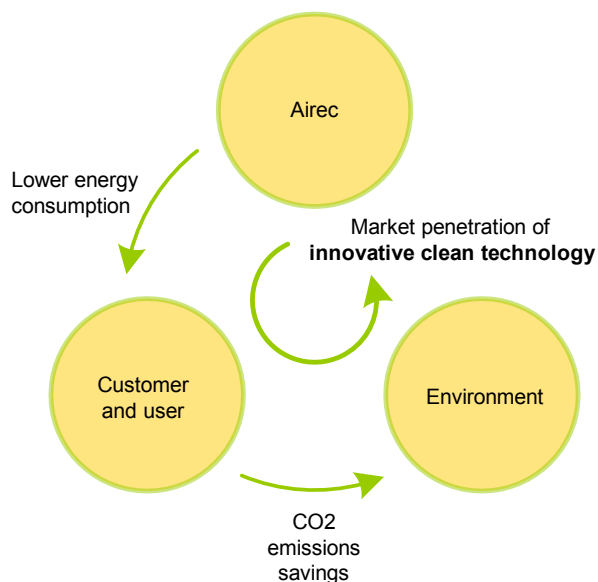
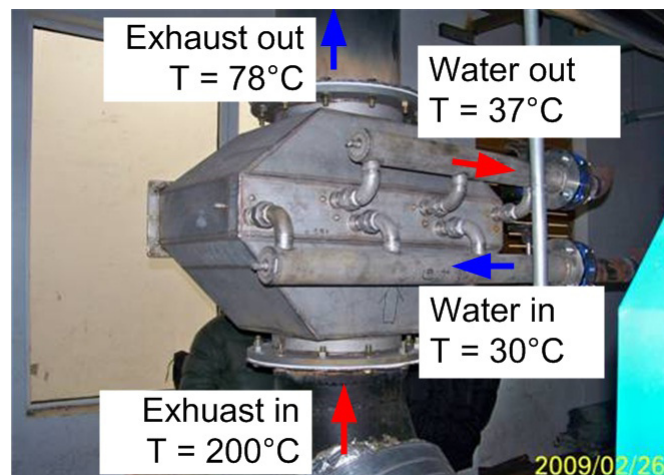
Airec's Chinese partner Guangzhou EastFirst Ltd together with a local installation company is successfully retrofitting gas fired boilers using AirCross21 in Beijing area.

Boiler: model GE615, 2 tons Buderus natural gas boiler

Heat Exchanger: 3 x AirCross21 - 140 plates / Copper brazed in parallel

The boiler operates at 75% load during most of the time, releasing the flue gases at a temperature near to 200°C.

The integration of Airec's solution allows cooling of the gases down to 78°C while condensing 77 kg/h of water content in them. This means close to 120 kW waste heat recovered and an increase in efficiency from 86,5% to 97,6%.



Natural gas consumption is reduced in 83000 Nm³/year, which means 143 CO₂ tons/year emission saving. On the economic side the payback time for this project is 1,5 year, well under the 10 years lifetime of the AirCross21 modules. All in all, the project is a win-win situation for the triangle Customer-Airec-Environment.

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