

## Cleaning installation for waste heat boiler TASNEE-Saudi Arabia

In May 2019 EKOZUB Ltd. Company launched a cleaning installation for a waste heat boiler built in the National Industrialization Company TASNEE- Jubail Industrial City, the Kingdom of Saudi Arabia.



Installation for cleaning the second pass of WHB (waste heating boiler) – TASNEE Saudi Arabia

Two GFU-24/8 generators installed at the exhaust outlet from the waste heat boiler were used to clean the second pass of the waste heat boiler. Two GFU 24/8 generators installed on the side wall of the boiler were used to clean the first pass. The shock wave cleans the counter tubes in countercurrent.

The Tasnee company commissioned in 2018 the EKOZUB Ltd. company solving the problem of dirt on the surface of the flame tubes of the waste heat boiler. Dirty gas causes overgrowth of the fire pipes and forces the boiler to be discontinued after about a month of work. The cleaning installation on site was assembled by the Arab company AL AMARA INTERNATIONAL Trading & Contracting Company Ltd.



GFU 24/8 shockwave generators built in TASNEE Saudi Arabia



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The generators were supplied with compressed air at a pressure of approx. 6.5 bar from the existing compressed air network. In addition, a pressure amplifier was installed, which ensures a maximum pressure of 9.5 bar. Four shock wave generators were placed on the platform near the boiler. For servicing purposes, ball valves have been installed that allow you to safely perform work without exposing your personnel to dangerous gases. Due to overpressure prevailing in the boiler on the flue gas side and high concentration of sulfur oxides, the protective air was used to secure the pipelines and generators. The shockwave was triggered automatically every 3-4 minutes.



Cleaning installation of waste heat boiler (pipelines covered with galvanized sheet) – TASNEE Saudi Arabia



Waste heat boiler with the cleaning installation of EKOZUB Ltd. company working at Petrochemia Blachownia S.A.(Joint-stock company) -Kędzierzyn Koźle

In April 2014. was launched by EKOZUB Ltd. company second pass cleaning system (fired-tube exchanger) of waste heat boiler installed in Petrochemia-Blachownia S.A. in Kędzierzyn Koźle. The shockwave technology was used for cleaning. The effect of obtained positive references in Petrochemia-Blachownia S.A. was the implementation of a cleaning installation for a similar waste heat boiler at the TASNEE refinery in Saudi Arabia.