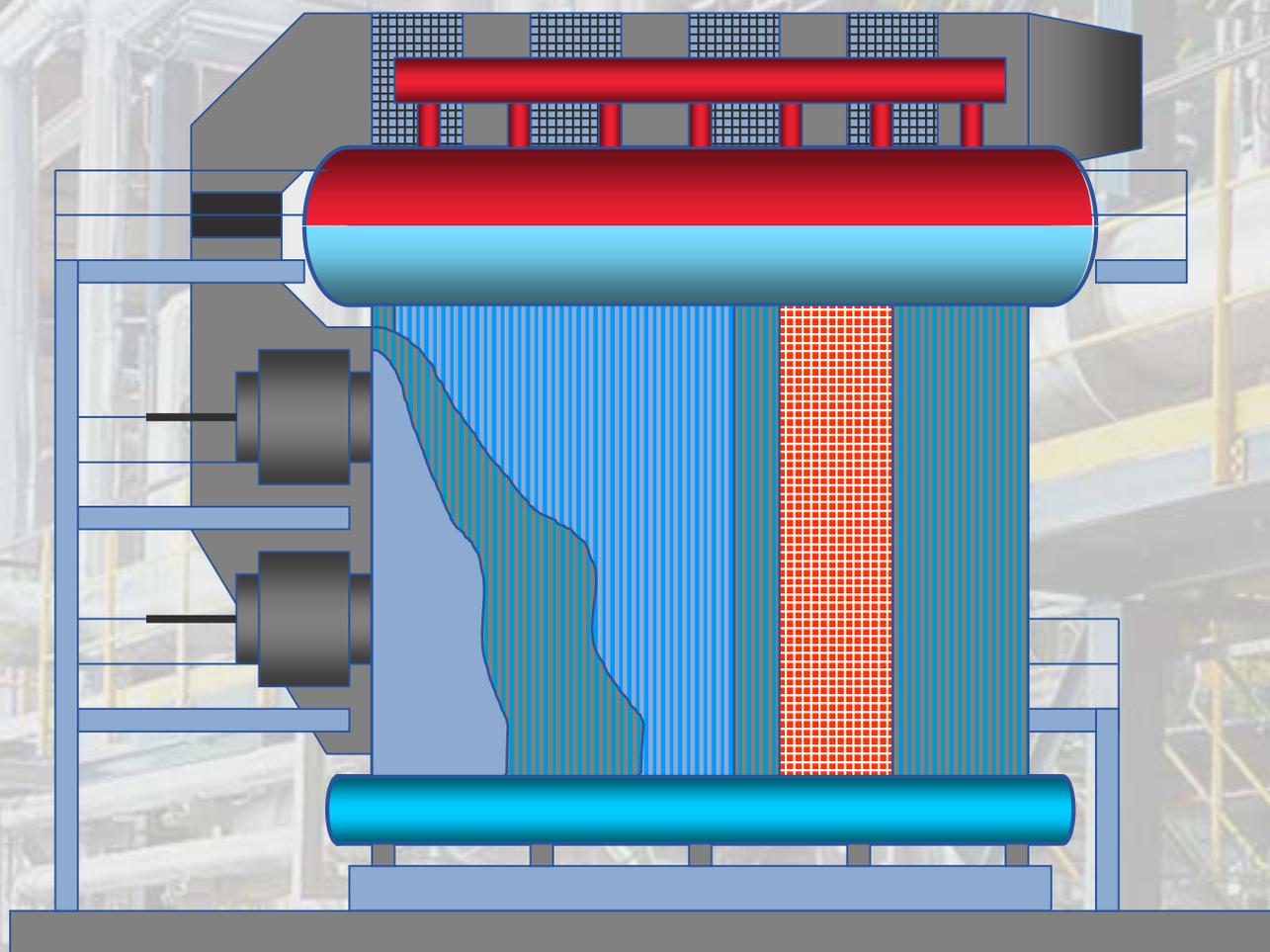


- HEAT RECOVERY
- BIOMASS
- PRIMARY FUELS
- SOLID RESIDUES
- LIQUID & GASEOUS RESIDUES

PRZYJAZN DABROWA GÓRNICZA, POLAND



PRZYJAZN, DABROWA GÓRNICZA, POLAND



Fuel	Coke-Oven Gas Excess Gas
Low Heating Value (min./max.)	33.9 / 36,9 MJ/kg
Fuel Throughput (max.)	7.0 t/h
Rated Thermal Input (max.)	80 MW
Steam Capacity	95 t/h
Steam Temperature	445 °C
Steam Pressure	45.3 bar
Feed Water Temperature	105 °C
Flue Gas Temperature	150 °C
Year of Commissioning	2007

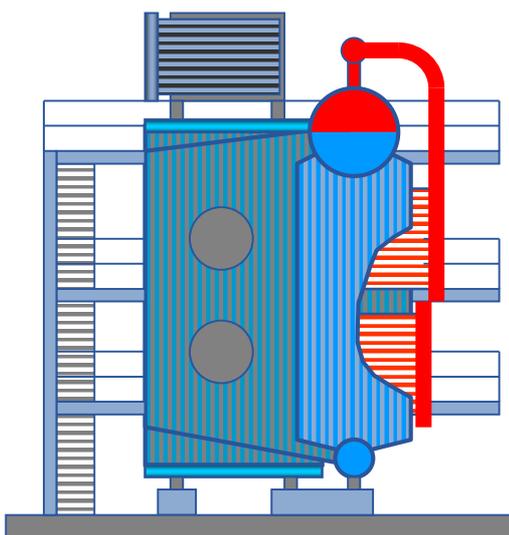
THE TASK

In the course of the modernisation of the energy supply system of the coking plant Koksownia Przyjaźń S.A. in Dabrowa Górnicza a boiler plant was required in order to increase the plant's share of self-produced electricity within the framework of complete co-generation. Standardkessel Baumgarte was entrusted with the task of ensuring the generation of 95 t/h of steam to supply a steam turbine with a capacity of 20 MW as well as the supplying of the coking plant with process steam with simultaneous thermal utilisation of the process gases accumulating, i.e. coke-oven gas and surplus gas.

THE SOLUTION

The installation conditions at the customer's site required a compact type of boiler construction. A Porta natural circulation boiler with superheater and economiser was used. This natural circulation boiler consists, in its evaporator part, of the upper and lower steam drums which are connected through the piping system of downcomers and riser tubes. The boiler is designed as a two-pass boiler. The first pass is both a combustion chamber and a radiant chamber at one and the same time. The combustion chamber is adapted to the flame geometry and the combustion conditions. In the second pass the superheaters and the evaporator tube bank are located.

The firing system of the boiler plant, arranged as a front firing system, consists of two process gas burners.



SCOPE OF SUPPLY

- Steam Generator
- Firing System for Gaseous Fuels
- Air and Flue Gas Ducts
- Piping
- Electrical, Instrumentation and Control Components

SERVICES

- Engineering incl. Obtaining Approvals and Liaison with Authorities
- Delivery, Erection and Commissioning
- Trial Operation