

ABK type boilers with a movable grate are designed to burn fuel with moisture content up to 43%. These boilers are manufactured with a power range from 150 kW to 2000 kW. ABK type boilers come equipped with a single ash removal arch. Wide selection of fuel types: wood chips, sawdust, pellets, and other dry fuels. High efficiency coefficient up to 85%. Control range of ABK model boiler is 30%-100%. Boiler specification and features:

- Movable grate installed in the combustion chamber.
  - Primary air supplied to separate combustion zones (2 or 3 zones).
  - Secondary air supply to the bunker.
  - Integrated ash multicyclone.
  - Automatic ash removal from under the grate.
  - Automatic ash removal from the bunker.
  - Pneumatic heat exchanger cleaning device for each heat exchanger tube.
  - Screw or hydraulic fuel feed to the bunker.
  - Protection against bunker overheating.
  - Protection against boiler overheating.
  - Primary and secondary air heated by the combustion products.
- Boiler automation control options:
- Operation of fuel storage and conveyors.
  - Fuel dosing into the bunker.
  - Hydraulic system for the grate.
  - Primary and secondary air fans.
  - Ash removal from under the grate.
  - Ash removal from the bunker.
  - Heat exchanger purge algorithm.
  - Maintaining the assigned traction in the bunker.
  - Flue gas recirculation (optional).
  - Combustion process control according to the " $\lambda$ " zone.
  - Control of the boiler recirculation pump or three-way valve according to the assigned temperature.
  - Sending emergency messages via GSM.
  - Boiler control remotely (via the internet).