

ECONOMY:

Wood-fuel boilers have a very competitive price and good economy of combustion.

FUNCTION:

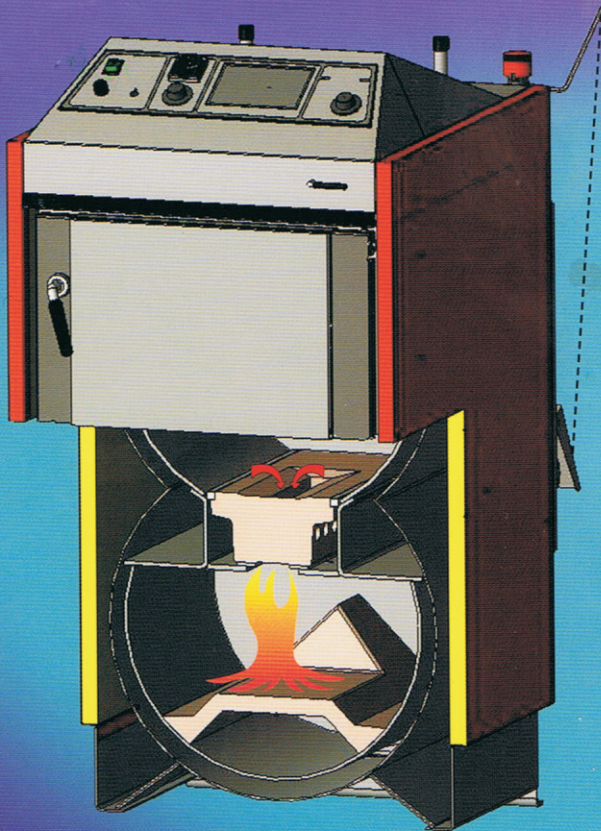
Gasification of wood (inverse burning) with subsequent combustion of wood gas in ceramic fire chamber.

Air supply is controlled by fan:

- Exhaust (S)
- Pressure (DC 70S)

REGULATION:

- Exhaust (pressure) fan
- Draft regulator HONEYWELL
- Boiler thermostat
- The boiler operates at lower power output without fan



ATMOS Dřevoplyn (Timber Gas)

DC 18S, DC 22S, DC 25S, DC 32S, DC 40SX, DC 50S

ENVIRONMENT:

Inverse burning and ceramic fire chamber enable practically complete combustion with a minimum of harmful exhalations. The boilers meet limits of regulations for environmental friendly product No. 13/2002 MZP CR.

INNOVATIONS:

- All-ceramic fire chamber
- Exhaust fan
- Cooling loop preventing overheating
- Ceramic shaped pieces with micro-reinforcement

INSTALLATION:

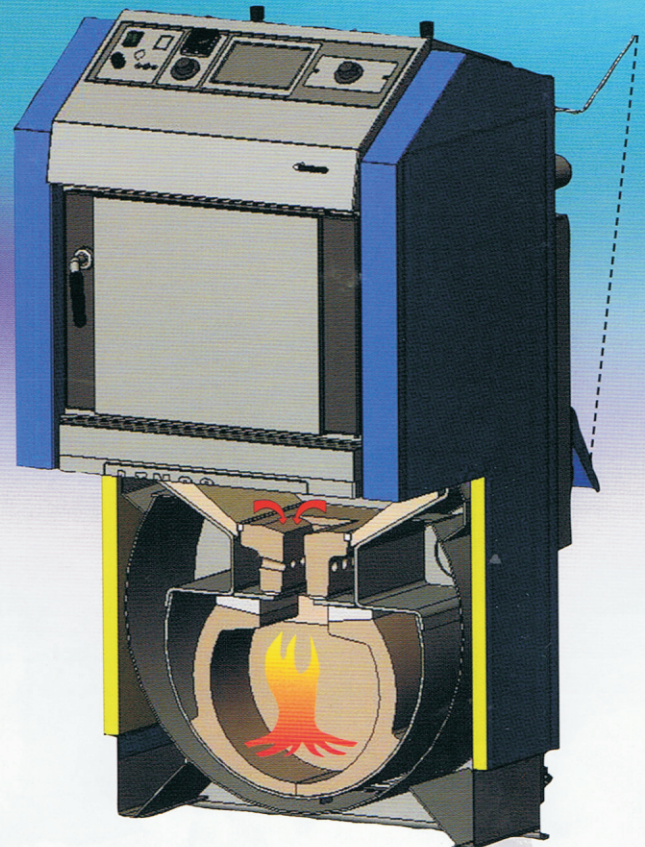
Boilers Atmos feature small dimensions and low weight and necessary regulation. The boiler must be fitted with a blender - return water temperature minimum 65 °C. The operation temperature of the boiler must be maintained within 80 - 90 °C. We recommend installation with accumulation.

COMFORT:

Possibility to supply large pieces of wood safe labour during cutting Ventilator provides uniform and efficient incineration Exhaust ventilator facilitates firing up and reduces fuming in the boiler room to minimum Sophisticated design enables easy and problem-free heating Excellent access for cleaning and sweeping



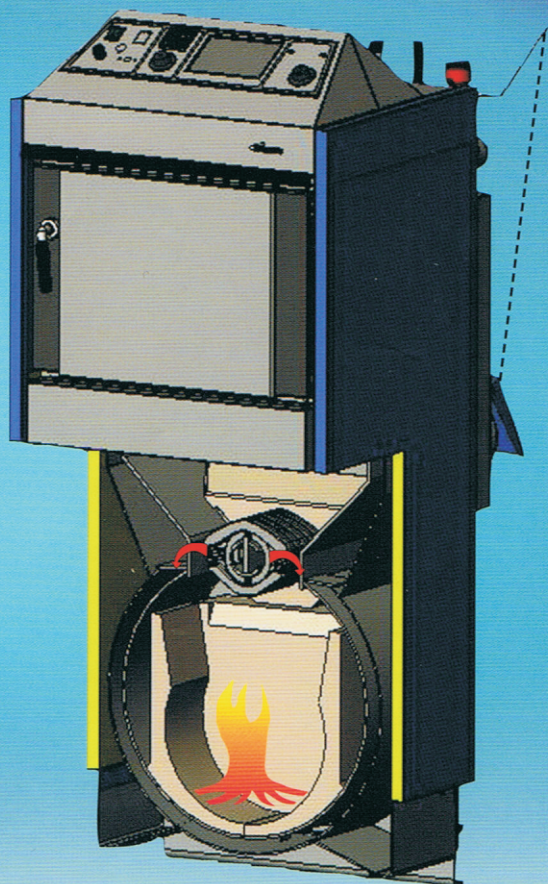
ATMOS ACD 01 - electronic equitherm controller



ATMOS Generator

DC 20GS, DC 25GS, DC 32GS, DC 40GS, DC 50GSX, DC 60GSX

The new generation **ATMOS Kombi Gasification Boiler** offers us an innovative look at combustion of coal in combination with wood. A **combined boiler** makes coal to be used as fuel, which has a future. **If you lack coal, you may use firewood, and, if you are short in wood, you may fire coal or you may combine them – by burning both fuels simultaneously.**
High efficiency = low fuel consumption.



ATMOS Kombi
 C 18S, C 20S, C 30S, C 40S, C 50S

ECONOMIC ASPECT:

Due to the fact that this boiler allows to burn fuels, which are and will be in prospect absolutely the cheapest ones, its operation becomes the most economic, if compared with other types of boilers.

ENVIRONMENTAL ASPECT:

By utilizing coal gasification in the new ATMOS Kombi Boiler, low emission values of pollution have been achieved.

ATMOS Boilers = „Environmentally Friendly Product“, which complies with Directive No. 13/2002 of the Ministry of Environment of the Czech Republic and „EU“ Standards.

Through continuous output control, with an efficiency of 81 – 87 per cent, considerable economy in fuel consumption has been accomplished, too.

Reverse combustion and ceramic combustion area enable practically a complete combustion with minimum harmful air pollution. Environmental parameters will be guaranteed for boiler operation at rated boiler capacity.

OPERATION AND MAINTENANCE:

The fuel recommended is brown nut coal 1 and dry logs (segments of unshaped timber). Other kinds of brown coal, briquettes, molded blocks of sawdust and briquettes of straw-, rape- and cereals-based dust represent a substitute fuel. Our recommendation is to use wood combined with coal together. Depending on the fuel used, it should be added in average twice a day to five times a day. It will suffice to remove the ashes within one to seven days, depending on the type of fuel. Exhausting fan facilitates heating up and it reduces smoking into the Boiler Houses to the minimum.

SELECTING THE RIGHT BOILER MODEL:

- If you intend mainly to fire coal - choose **ATMOS Kombi Gasification Boiler**.
- If you prefer to use firewood - choose **ATMOS Dřevoplyn (Timber Gas) Gasification Boiler** or **ATMOS Generator** - these have been better adapted for wood burning - they have a larger chute and enable to burn longer pieces of wood.



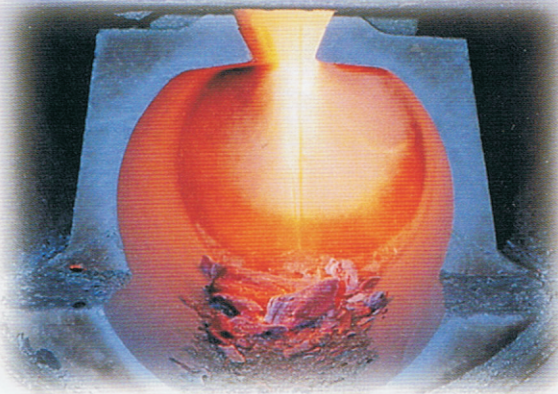
Brown coal



Log wood



Exhaust fan



Flame Glow in a Ceramic Combustion Pipe Fitting