

■ The EKO-CKS 500 steel hot water boilers (with rated thermal output 500 kW) are engineered to be connected to open central heating systems, for solid fuel firing. They are constructed for connection to a chimney through a cyclone and fan. The boiler (fan) regulation controls its functioning.

The successful application of modern technologies and high quality materials as well as thoroughly tested technical solutions, make these boilers safe, reliable and easy to assemble.



EKO-CKS 500

■ Steel hot water boilers for central heating systems engineered for solid fuel (wood, coal) firing with nominal heat output of 500 kW.

- They are engineered for solid fuel firing (wood, low-calorie coal ...).
- Designed for connection to an open central heating system.
- A carefully sized combustion chamber with triple pass flue gas flow assures boiler operation at high efficiency. This makes the boiler very economical to use.
- The large door and combustion chamber enable firing with big pieces of wood, as well as easy cleaning and maintenance.
- Maximum working pressure is 4 bars, which enables connection to large heating systems.
- Connected to the chimney only through a cyclone and fan.
- The Cyclone CC 500, the fan for flue gases and the boiler regulator control comprises the required set.
- The Cyclone CC has a dust cleaning function from the flue gases.
- The fan pulls the fresh air into the combustion chamber. The flue gases are drawn out through the chimney.
- The regulator controls boiler operation. Linked to a thermostat, it activates the pump when the boiler temperature exceeds 75 °C and controls the protecting pump function (at 0-60 °C) and the fan. The fan switching is integrated.
- The large upper door enables easy and quick cleaning from the front side of the boiler.
- The body of the boiler is delivered separately from the casing with thermal insulation. This enables uncomplicated transport and reduces the risk of damage to a minimum.
- The boiler manufactured in accordance with ISO 9001 and ISO 14001.

EKO-CKS 500

500

Heat output range	kW	380-500
Boiler water content	l	1700
Boiler mass	kg	2920
Cyclone mass	kg	165
Fan mass	kg	44
Boiler flue gas exhaust diameter	Ø mm	202
Boiler flue gas exhaust height J	mm	2505
Inlet/outlet	DN	125
Filling/draining	G	6/4"
Safety line	DN	50
Max. operat. temperature	°C	100
Max. operat. pressure	bar	4
Total boiler dimensions AxBxC	mm	2550x2540x1315
Total length E	mm	3400
Total height K	mm	2860
Cyclone height I	mm	2360
Height of the inlet line D	mm	2540
Height of the outlet line G	mm	670
Height of the safety outlet line H	mm	920
Height filling/draining F	mm	600
Dimension L/M	mm	2000/1245
Combustion chamber dimensions	mm	615x700
Max. log length	mm	1850



ADAPTABLE

Designed for combustion with several types of solid fuels (wood, coal ...).



EFFICIENT

Properly dimensioned chamber and the control of combustion gases in three passages ensure a high degree of boiler utilization.



VERSATILE

Large doors and boiler furnaces allow firing with solid solid fuel and easy cleaning and maintenance.



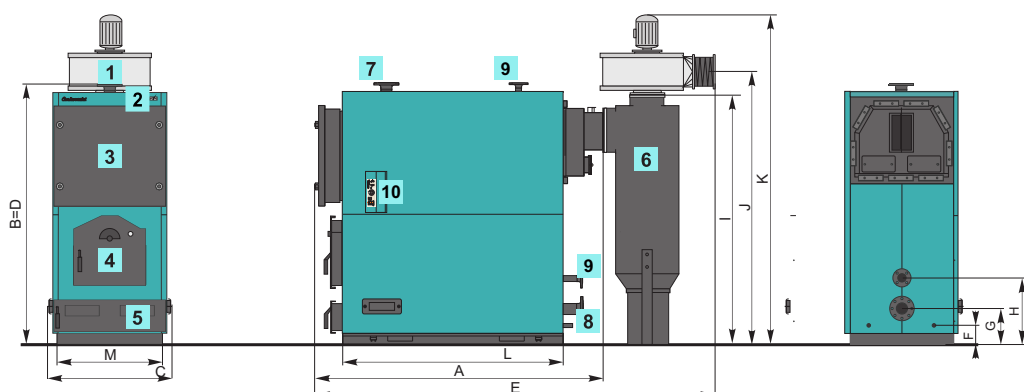
INSTALLATION

A separate body of the boiler is supplied, with a separate thermalinsulation panel, allowing easy transportation and installation.



BASIC DIMENSIONS

- 1 Exhaust fan
- 2 Thermometer
- 3 Upper door
- 4 Lower door
- 5 Primary air door/cleaning
- 6 Cyclone
- 7 Water boiler inlet
- 8 Boiler outlet
- 9 Outlet for expansion vassel
- 10 Boiler regulation

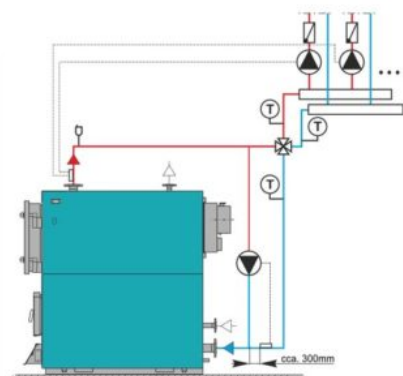


DELIVERY AND OBLIGATORY ADDITIONAL EQUIPMENT



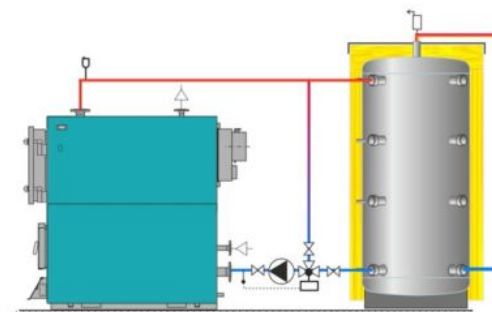
Delivery:

- Boiler body with the boiler door;
- Outer casing with thermal insulation, a thermometer, draught regulator, cleaning accessories (scraper, brush, accessories holder)



Connection to the heating system:

- Safety boiler pump and heat pump thermostat (0-65°C);
- Manual 4-way mixing valve
- Open expansion vessel



Connection to the heating system with CAS accumulation tank (recommended)

- Boiler pump;
- 3-way mixing valve with the motor actuator with controller (as ESBE CRA)
- CAS accumulation tank (min. 30 l/kW)
- open expansion vessel

Possible additional equipment:

- cyclone with the fan and controller