



EKO-CK P (14–110 kW)

The EKO-CK P steel hot water boilers (with nominal heat output 14 – 110 kW) are engineered for solid fuel, wood pellet, oil or gas firing to meet heating demands from the smallest to the largest premises, as a main or as an alternative heat source. This product can be easily recognized by its modern design, by its synthesis of modern technologies and its quality of material, as well as through its simple and easy assembly and its straightforward operation and control. The application of well developed and thoroughly tested technical solutions makes these boilers safe and reliable. A particular feature of these boilers is the ease of integration of any suitable burner and boiler controls. Boilers are manufactured to the EN 303-5 standard.



PRODUCT CHARACTERISTICS



VERSATILE

Designed for combustion with several types of fuel (solid, pellets, liquid or gaseous).



ECONOMICAL

Keeping the combustion gases in the three passages ensures a high degree of boiler utilization.



THERMOSTAT

The boilers are factory equipped with a thermostat that controls the operation of the pump.



INSTALLATION

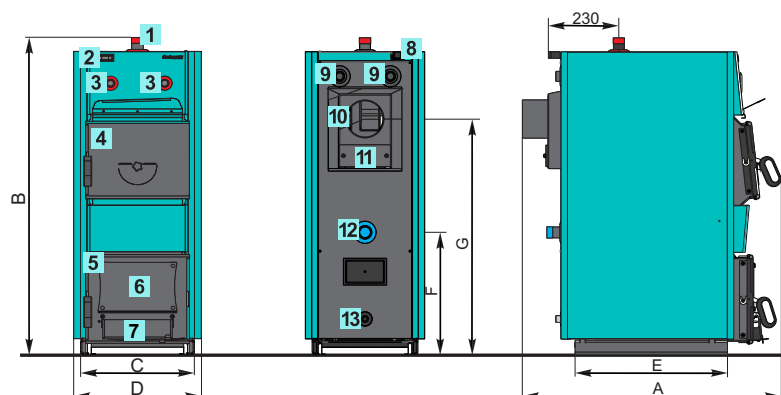
A separate body of the boiler is supplied, with a separate thermal insulation panel, allowing easy transportation and installation.



- Hot water boiler for central heating systems is produced for solid fuel, pellets, oil or gas firing (nominal heat output 14 – 110 kW).
- A carefully sized combustion chamber with triple pass flue gas flow assure boiler operation at high efficiency. This makes the boilers very economical to use.
- The combustion chamber is made out of high quality 5 mm thick steel sheet.
- The large door and combustion chamber enable firing with big pieces of wood, as well as easy cleaning and maintenance.
- If required a thermal safety system can be built in through already prepared apertures.
- A thermostat for pump control is built in.
- The body of the boiler is delivered separately from the casing and the thermal insulation which enables easier transportation and assembly with reduced risk of damage.
- The basic standard boiler is delivered with a boiler water temperature gauge as well as a cleaning set with an ashtray.
- In the Cm Pelet-set of the boiler fired with wood pellets, there is a set for installation of a pellet burner on the lower boiler door, turbulators, a pellet burner, pellet container, pellet feeder and boiler regulation.
- Boilers for oil/gas firing are delivered with an appropriate aperture on the lower door to take the burner.
- Boilers for pellet firing require the appropriate lower boiler door to be delivered, together with the necessary pellet set (Cm pelet-set).
- When firing oil/gas or pellets, turbulators must be installed in the boiler (factory delivery with Cm Pelet-set, additional order for firing oil/gas).
- The basic boiler regulator control unit of the burner (for oil/gas firing) is delivered separately. It can be connected via the upper casing lid of the boiler.
- The boiler is tested and certified to the European standard EN 303-5 and EN 304 and manufactured in accordance with ISO 9001 and ISO 14001 standard.

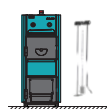
BASIC DIMENSIONS:

- 1 Boiler flow;
- 2 Thermometer;
- 3 Opening for drag regulator;
- 4 Upper boiler door;
- 5 Lower boiler doors;
- 6 Liquid / gas burner connection;
- 7 Primary air opening position;
- 8 Pump thermostat connection point;
- 9 Openings for safety valves;
- 10 Flue gas outlet;
- 11 Open the flue tanks for cleaning;
- 12 Boiler reverse;
- 13 Inlet / leak



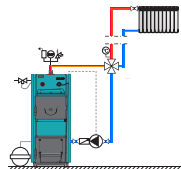
EKO CK-P apraksts		14	20	25	30	35	40	50	60	70	90	110
Rated thermal power	kW	14	14-20	20-25	25-35	30-35	35-40	40-50	50-60	50-70	70-90	90-110
Water capacity in the boiler	lit.	59	60	64	67	76	78	96	118	135	140	157
Weight of the boiler	kg	220	227	234	255	266	293	337	355	429	455	492
Outboard diameter of flue gas outlet	f (mm)	150/930	150/930	150/930	160/930	160/930	180/930	180/1025	180/1025	200/1085	200/1085	200/1085
Burner aperture size	f (mm)	105	105	105	105	105	105	105	105	105	105	105
Upper Door Open (H * W)	mm	321*273	321*273	321*273	321*273	421*273	421*273	421*273	421*273	421*275	521*275	521*275
Lower door opening (H * W)	mm	321*322	321*322	321*322	371*322	421*322	471*322	471*322	471*322	471*322	521*422	521*422
Chimney draft	Pa	15	16	18	19	20	21	23	25	26	29	31
Installation/output diameter	R	5/4"	5/4"	5/4"	5/4"	5/4"	5/4"	5/4"	5/4"	64"	2"	2"
Discharge diameter	R	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1"	1"	1"
Flue gas temperature (liquid, gas)	°C	170	170	170	170	170	170	180	180	190	200	200
Flue gas temperature (firewood)	°C	190	190	190	190	190	190	220	220	230	240	240
Maximum operating temperature	°C	90	90	90	90	90	90	90	90	90	90	90
Maximum working pressure	bar	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Boiler depth A	mm	985	985	1020	1020	1020	1020	1142	1142	1250	1250	1250
Boiler height B	mm	1255	1255	1255	1255	1255	1255	1255	1355	1430	1430	1430
Body width C	mm	420	420	420	470	520	570	570	570	570	620	620
Total boiler width D	mm	470	470	470	520	570	620	620	620	640	690	690
Boiler base depth E	mm	565	565	600	600	600	600	690	725	815	815	915
Height to reverse F	mm	485	485	485	485	485	485	485	485	630	630	630
Height to G	mm	930	930	930	930	930	930	1025	1085	1085	1085	1085
Firewood dimensions for loading	mm	500	500	500	500	500	500	600	600	700	800	800

DELIVERY, OBLIGATORY AND OPTIONAL ADDITIONAL EQUIPMENT:



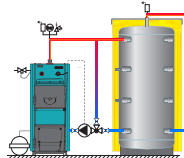
Delivery:

Boiler body with the boiler door;
Outer casing with thermal insulation and the heat pump thermostat, set (screws, dowels, plug, rosettes), cleaning accessories (scraper, poker, brush, accessories holder).



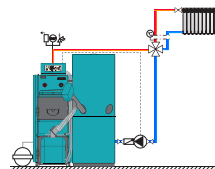
Solid fuel firing, without CAS accumulation tank:

draught regulator, manual 4way mixing valve;
Closed heating system
thermal safety valve, heat exchanger, safety-air vent group (2.5 bar) and expansion vessel;
Open heating system
open expansion vessel



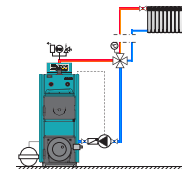
Solid fuel firing, with CAS accumulation tank:

draught regulator, CAS accumulation tank (min. 30 l/kW), 3way thermostatic valve LTC, VTC, 3way mixing valve with CRA111 motor actuator ... (60°C);
Closed heating system
thermal safety valve, heat exchanger, safety-air vent group (2,5 bar) and expansion vessel;
Open heating system
open expansion vessel



Wood pellet firing: Cm Pelet-set;

manual 4-way mixing valve or CAS accumulation tank (min. l/kW) and LTC, VTC. (60°C);
Closed heating system
safety-air vent group and expansion vessel;
Open heating system
open expansion vessel



Oil/gas firing:

boiler regulation EKO/CK/CBK; set for installation of the oil/gas burner with turbulators oil/gas burner;
manual 4-way mixing valve **Closed heating system**
safety-air vent group and expansion vessel;
Open heating system open expansion vessel