CENTROMETAL **Oil and Gas boilers**
EKO-CUP V3 (600 – 1500 kW) and EKO-CUP SV3 (2500 kW)

- **EKO-CUP V3** steel hot water boilers (heat output range 0,8-1,5 MW) and **EKO-CUP SV3** (heat output range 1,5-2,5MW) are engineered to meet heating requirements in middle sized or large premises, or to provide the heat source for manufacturing or processing.
- This boiler can be installed as a separate unit or as part of a modular set of two or more units. This product is notable for its modern design, for its synthesis of modern technologies and high quality materials, as well as for its simple and easy assembly and operation. Well tested development allied to intensive quality control assures that these boilers are safe and reliable. A triple-pass flue gas flow system is the foundation for their low energy consumption. A wide range of automatic control devices, delivered as additional equipment, enables the customer to benefit from a fully automatic direct or remote controlled heating center.

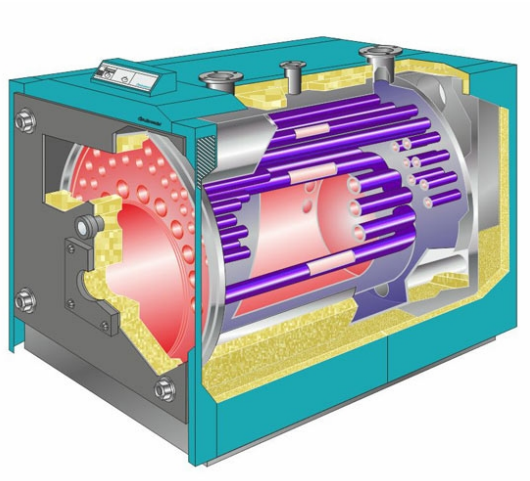
PRODUCT CHARACTERISTICS

EFFECTIVE
Built-in turbulators allow better heat transfer from flue gas to boiler water.

ISOLATION
A special feature is the exceptional thermal insulation of the boiler.

REGULATION
The basic boiler control operates by the operation of a two-burner burner according to the boiler's default boiler temperature.

INSTALLATION
Delivered in parts that allows easy transportation and installation of the boiler



- Hot water boiler for central heating systems with a triple-pass flue gas flow system (heat output range 0,8-2,5 MW).
- Economical and ecologically attractive, with high efficiency and low NOx content .
- A maximum operating temperature of 110°C enables use as a source of heat for manufacturing and processing.
- Maximum operating pressure of the boiler is 6 bar, which enables installation into heating systems for tall buildings.
- Built in turbulators enable better heat transfer from flue gas to the boiler water, better regulation of gas flows in the combustion chamber, better regulation of the output temperature of flue gas, i.e. high quality balancing between the functions of the boiler, burner and chimney.
- A large volume of water in the boiler reduces the number of start ups, prolongs the life of the burner and saves energy.
- Good design and material choice assure extremely low start-up condensation.
- All connections are installed on the upper side of the unit, enabling simple assembly.
- The boiler is delivered with thermal control installed together with connections for an external temperature thermostat, which enables fully automatic regulation of the heating system.
- A special feature is the high performance heat insulation.
- The blank door of the boiler has prepared mounting holes, enabling attachment of any kind of burner.
- The body of the boiler is delivered separately from the casing with thermal insulation which allows easier transportation and assembly.
- 90° right side and left side opening of the boiler door enables easy cleaning.
- The boiler is tested and certified at the Faculty of Engineering in Zagreb and manufactured in accordance with ISO 9001.

Contact phone: +371 28818088, +371 29149923
E-mail: info@centrometal.lv
Homepage: www.centrometal.lv

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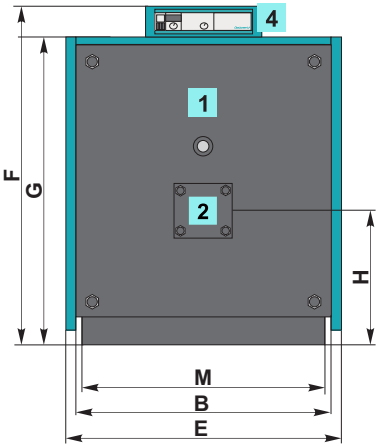
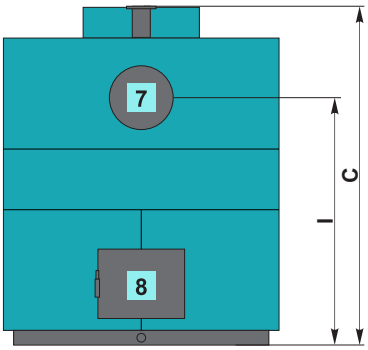
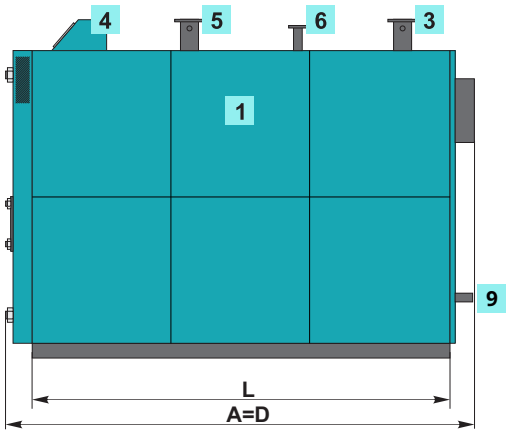
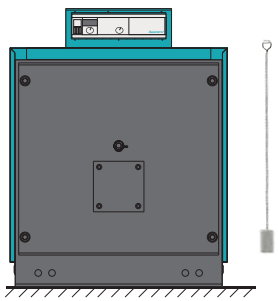
1 Boiler EKO-CUPV3/SV3
2 Blind panel
3 Boiler water inlet
4 Boiler regulation
5 Boiler water outlet
6 Safety line
7 Boiler flue gas exhaust
8 Opening for cleaning
9 Filling / Draining





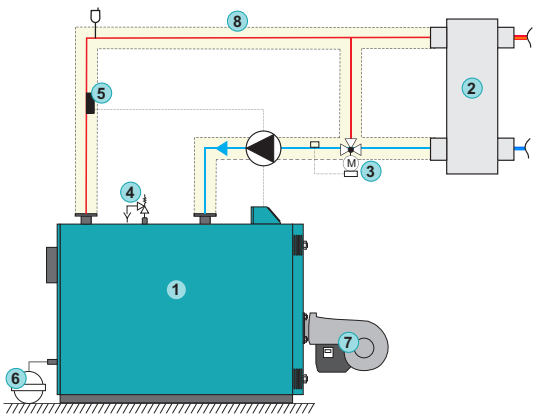


		EKO-CUP S3				EKO-CUP SV3
		800	1000	1250	1500	2500
Nominal neat ouput	kW	800	1000	1250	1500	2500
Heat output range	kW	240-800	300-1000	375-1250	450-1500	750-2500
Boiler water conten	l	1085	1150	1410	1510	1100
Boiler mass	kg	1705	1970	2280	2550	-
Max.operat. temperature	°C	110	110	110	110	110
Max. operat. pressure	bar	6	6	6	6	6
Flue gas exhaust diameter	mm	300	300	400	400	450
Flue gas exhaust height (l)	mm	1150	1220	1370	1415	1580
Boiler water inlet/outlet (NP6)	DN	100	125	125	150	200
Safety line (NP 16)	DN	50	65	65	65	100
Filling / Draining	R	1”	5/4”	5/4”	5/4”	6/4”
Flue gas temperature	°C	190	190	190	190	200
Dimensions of the body AxBxC	mm	2485x1335x1615	2525x1405x1690	1525x1555x1880	2480x1600x1925	3480x1865x2145
Total dimensions of the body DxExF	mm	2485x1400x1700	2525x1470x1750	2525x1585x1955	2480x1675x2000	3480x1930x2145
Width (G/H)	mm	1445/660	1515/660	1705/763	1725/765	1965/1035
Width of the base M	mm	1265	1335	1485	1530	1800
Length of the base L	mm	1960	1960	1960	1960	2880
Boiler chamber resistanc	mbar	6,3	7,1	7,9	8,7	9,5



Delivery of EKO-CUP M3

- Body of the with casing and basic boiler controller, cleaning set.



Basically diagram of connection to hydeaulic separator with basic boiler control:

1. Boiler EKO-CUP S3
2. Hydraulic separator
3. Motor operated 3-way mixing valve with SBE CRA controller (60°C)
4. Tested safety valve
5. Heat pump thermostat
6. Expansion vessel
7. Oil/gas burner
8. Thermal pipe insulation

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