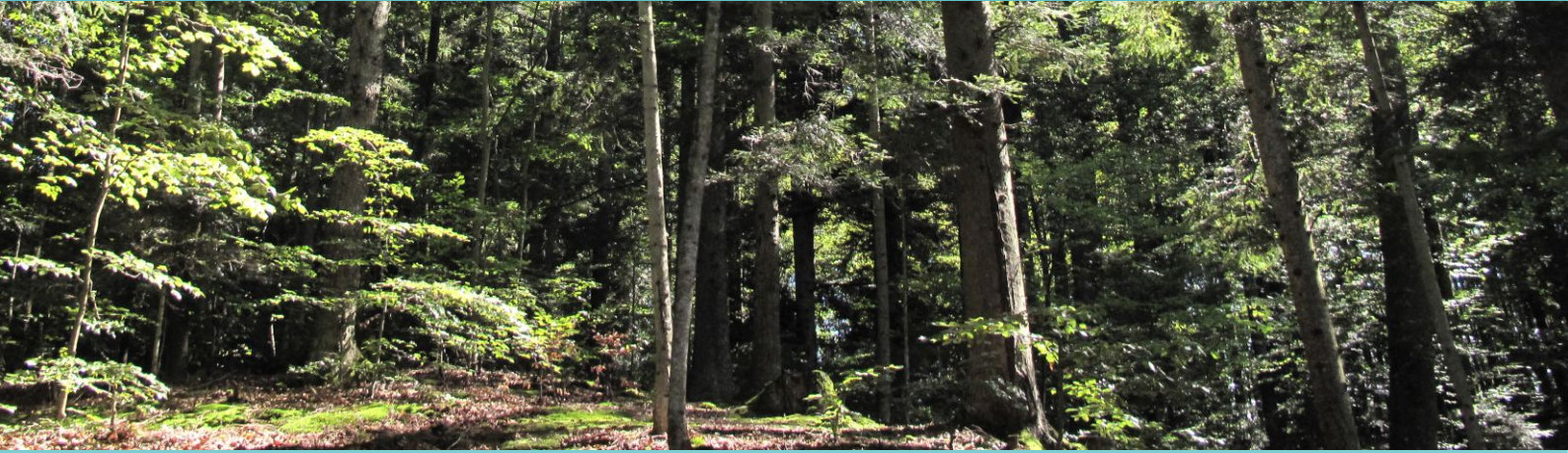


# *Centrometal*

HEATING TECHNIQUE



## PRODUCT RANGE





EKO-CK P

EKO-CBK P

EKO-CK P		14	20	25	30	35	40	50	60	70	90	110
Heat output range (kW)		14	15-20	20-25	25-30	30-35	30-35	30-35	30-35	30-35	30-35	90-110
Water heater content (l)		-	-	-	-	-	-	-	-	-	-	-
Boiler mass (kg)		220	227	234	234	266	266	266	266	266	266	492
Depth/width boiler (mm)		985/470	985/470	1020/470	1020/520	1020/570	1020/620	1142/620	1142/620	1250/640	1250/690	1350/690
Height of the boiler (mm)		1255	1255	1255	1255	1255	1255	1255	1355	1430	1430	1430
Energy efficiency class		A	A	A	A	A	A	A	A	A	A	A

EKO-CBK P

EKO-CBK P		20	25	30	35	40	50
Heat output range (kW)		15-20	15-25	25-30	25-35	35-40	40-50
Water heater content (l)		65	72	80	80	80	100
Boiler mass (kg)		271	281	303	322	343	375
Depth/width boiler (mm)		985/515	1020/515	1020/565	1020/615	1020/665	1140/665
Height of the boiler (mm)		1610	1610	1610	1610	1610	1610
Energy efficiency class		A	A	A	A	A	A



CentroPlus-B

The steel hot water boilers **CentroPlus** and **CentroPlus-B** (nominal heat output of 25, 35 and 49 kW) have two separate combustion chambers inside the boiler water. The left combustion chamber is used for solid or liquid fuel firing, the right combustion chamber is used for pellet or liquid fuel firing. The possibility of a combination of solid fuel firing and automatic start-up of the oil and pellet burner at a time when the solid firing does not meet the need any more, make this boiler particularly interesting. The specific quality of CentroPlus-B boilers is a built in stainless steel hot water heater.

CentroPlus		25	35	50
Heat output range (kW)		25	35	49
DHW tank volume (l)		-	-	-
Boiler mass (kg)		464	522	650
Depth/width boiler (mm)		1065/915	1065/1015	1140/1145
Height of the boiler (mm)		1260	1260	1260
Energy efficiency class		A	A	-

CentroPlus-B

CentroPlus-B		25	35	50
Heat output range (kW)		25	35	49
DHW tank volume (l)		80	80	100
Boiler mass (kg)		512	522	650
Depth/width boiler (mm)		1065/915	1065/1015	1140/1145
Height of the boiler (mm)		1560	1560	1560
Energy efficiency class		A	A	-

The steel hot water boilers CentroPlus and CentroPlus-B can be fired by **solid fuel** and **oil**. For this kind of firing, an oil burner and the boiler controller for EKO-CK/CKB should be fitted. In addition to liquid fuel only or only solid fuel only firing, there is the availability of solid fuel firing with automatic start-up of the oil burner whenever the solid fuel feeding is insufficient to sustain the required water temperature. This "mini-plant" is controlled by a digital regulator and draught regulator, if the boiler is fired by solid fuel. Alternatively, a Cm Pelet-set for CentroPlus can be connected to the boiler i.e. in the pellet/oil or pellet/solid fuel version.

#### Basic parts for oil/pellet firing:

boiler CentroPlus/-B, oil burner, regulation CentroPlus/-B - oil / Cm Pelet-set for CentroPlus/-B (pellet burner, pellet regulation, pellet tank (0,3 m<sup>3</sup> standard or 0,8 m<sup>3</sup> by special order), pellet transporter).

The steel hot water boiler **CentroPlus** and **CentroPlus-B** can be fired with **wood pellets** and with **solid fuel**. For wood pellet firing the Cm Pelet-set for CentroPlus must be added (volume of the pellet tank 0,37 m<sup>3</sup> or 0,8 m<sup>3</sup>). In addition to wood pellet only and solid fuel only firing there is the availability of the prime fuel firing with automatic start-up of the secondary burner whenever the solid fuel feeding is insufficient to sustain the required water temperature. This "mini-plant" is controlled by a digital regulator and draught regulator, if the boiler is fired by the solid fuel. The pellet tank is an integral part of the plant and it is filled up from its upper side, according to need. With pellet firing, there is a possible fuel cost saving of up to 40%, compared with the oil feeding system. Alternatively, an oil burner can be connected to the boiler and the boiler control function for CentroPlus, i.e. in the pellet/oil or oil/solid fuel version.

#### Basic parts for solid fuel/pellet firing:

boiler CentroPlus/-B, Cm Pelet-set for CentroPlus/-B (pellet burner, pellet regulation, pellet tank (0,3 m<sup>3</sup> standard or 0,8 m<sup>3</sup> by special order), pellet transporter).



CentroPlus-B

CentroPlus

**BIO-CET B** steel hot water boilers for **solid fuel** firing are engineered for central heating and for cooking. Heat output transferred to heating water is 12, 19 and 25 kW, and 5-6 kW is transferred to the surrounding space through the upper heating plate. They can be connected to closed and open central heating systems, with and without the accumulation tank. The boiler is easily adapted to requirements for space heating by changing the position of the firebox grate.



BIO-CET B




BIO-PEK B

**BIO-PEK B** steel hot water boilers for **solid fuel** firing are engineered for heating of smaller premises and for cooking and baking. Heat output transferred to heating water is 12, 19 and 25 kW, and 5-6 kW is transferred to the surrounding space through the upper heating plate. There is the option of a boiler with right or left connection to the chimney. The boiler is easily adapted to requirements for space heating by changing the position of the firebox grate.

		BIO-CET B 17	BIO-CET B 23	BIO-CET B 29	BIO-PEK B 17	BIO-PEK B 23	BIO-PEK B 29
Heat output range (kW)		18	24	30	18	24	30
Rated thermal output (water) (kW)		12	19	25	12	19	25
Boiler mass (kg)		121	176	201	205	234	258
Depth/width boiler (mm)		635/460	635/600	635/715	635/1000	635/1100	635/1150
Height of the boiler (mm)		910	885	885	885	885	885
Energy efficiency class		A	A	A	A	A	A


**BioTec-L** steel hot water boilers with the rated heat output of 25 to 45 kW are designed for **wood log** firing. They are intended for heating from the smallest to medium-sized premises. The wood gasification principle enables a complete fuel burning. Spacious combustion chamber allows insertion of the logs up to 550 mm long. The burning period for a single fill of logs is at least 4 hours at the rated output and can be extended to a whole day if the need for heating is reduced. The boiler can keep the glow up to 12 hours, which means that in this period it is not necessary to fire up the boiler in order to keep the heating process. Boiler operation is managed with built-in boiler control unit using the boiler sensor, lambda probe, temperature sensor in the boiler combustion chamber, the motor for managing the primary and secondary air intake and changing the rpms of underpressure fan on flue gases outlet from the boiler. The boiler is connected to the central heating system indirectly through a three-way thermostatic valve and the CAS accumulation tank.

BioTec-L		25	34	45
Heat output range	(kW)	25	34	45
Boiler mass	(kg)	519	606	677
Depth/width boiler	(mm)	1400/585	1370/700	1385/700
Height of the boiler	(mm)	1330	1370	1565
Energy efficiency class		A+	A+	A+



BioTec-L


**BioTec-C** steel hot water boilers (with nominal heat output of 25 to 45 kW) are designed for **wood log** firing for the heating of small and middle sized premises. The wood gasification principle enables a complete fuel burning. Logs up to 550 mm long can be inserted into the large combustion chamber. The burning period for a single fill of logs is at least 4 hours at the rated output and can be extended to a whole day if the need for heating is less. Boiler operation is managed with inbuilt boiler control. Boiler is connected to the central heating system through a 3-way thermostat valve accumulation tank CAS.

BioTec-C		25	35	45
Heat output range	(kW)	25	35	45
Boiler mass	(kg)	519	606	677
Depth/width boiler	(mm)	1400/585	1370/700	1385/700
Height of the boiler	(mm)	1330	1370	1565
Energy efficiency class		A+	A+	A+



BioTec-C

Steel hot water boiler **BioTec Plus** with two combustion chambers is intended for firing **wood pellets** and **logs**. In the pellet combustion chamber is installed the burner for wood pellet firing with the automatic pellet firing and **automatic grate cleaning function** and in the second combustion chamber the wood **gasification principle** enables burning of logs. Multifunctional digital boiler control using lambda probe and underpressure fan optimizes combustion in both combustion chambers, which increases the efficiency of the boiler. The pellet tank is an integral part of the boiler to which the automatic vacuum pellet supply can be installed. The installation of the accumulation tank (CAS) is obligatory. It is possible to expand the boiler control with the CM2K module (steering of 2 heating circuits to the outside temperature, max. 4xCM2K), alarm message and boiler start/stop module CMGSM, and CM WiFi box.

BioTec Plus		25	35	45
Heat output range	(kW)	25	35	45
Boiler mass	(kg)	750	875	930
Depth/width boiler	(mm)	1385/1025	1445/1025	1385/1025
Height of the boiler	(mm)	1350	1520	1590
Energy efficiency class		A+	A+	A+



BioTec Plus

**CAS** accumulation tanks are meant to be integrated into central heating systems, mostly with biomass fired boilers in order to store heat energy and enable a more economical and efficient functioning of the boiler. They are produced in a range of sizes and types: as an accumulation tank (CAS), with a built in stainless steel boiler for heating domestic water (CAS-B), with an built in tube exchanger for connecting solar collectors (CAS-S) and with a built in stainless steel boiler and a tube exchanger (CAS-BS).

Type		CAS									CAS-S			CAS-BS			CAS-B		
		301	501	801	1001	1501	2001	3001	4001	5002	501	801	1001	501	801	1001	501	801	1001
Volume	(lit.)	325	475	740	940	1450	2160	2960	3820	5055	475	740	940	475	740	940	475	740	940
Tank body diameter	(mm)	500	650	790	790	1000	1200	1250	1400	1600	650	790	790	650	790	790	650	790	790
Outer diameter	(mm)	700	850	990	990	1200	1400	1450	1600	1800	850	990	990	850	990	990	850	990	990
Total height	(mm)	1810	1670	1750	2150	2100	2180	2695	2790	2825	1670	1750	2150	1670	1750	2150	1670	1750	2150
Min. height of the room	(mm)	2010	1870	1950	2350	2300	2335	2915	3015	3000	1870	1950	2350	1870	1950	2350	1870	1950	2350
Tank volume PTV	(lit.)	-	-	-	-	-	-	-	-	-	-	-	-	125	170	170	125	170	170
Tube exchanger	(m <sup>2</sup> )	-	-	-	-	-	-	-	-	-	1,9	2,6	3,2	1,9	2,6	3,2	-	-	-







CentroPelet Z6



CentroPelet Z12



CentroPelet ZR12



CentroPelet ZS10

Pellet firing stoves **CentroPelet Z** are hot air **wood pellet** firing stoves that heat the room with hot air using a fan built in the stove. They are made of steel with modern design and high efficiency. CentroPelet **Z12** and **ZR12** are supplied with a remote control. The delivery standardly includes a digital control that can be used for controlling the operation of the stove. The main advantage is easy operation, maintenance and installation (no need for radiators, pipes ...).

CentroPelet		Z6	Z12	ZR12	ZS10
Heat output range	(kW)	2,5 - 5,53	2,64 - 9,05	2,64 - 9,05	2,92 - 9,01
Net weight	(kg)	45	91	91	100
Depth/width	(mm)	430/430	490/495	490/495	280/935
Height	(mm)	765	1000	1000	935
Pellet consume	kg/h	0,57 - 1,34	0,6 - 2,6	0,6 - 2,6	0,62 - 1,98



CentroPelet ZV16



CentroPelet ZV

Hot water stoves **CentroPelet ZV** are **wood pellet** firing stoves intended for heating the room with air by means of a built-in fan and water through the radiator central heating. They are made of steel with modern design and high efficiency. They have a built-in circulation pump, safety valve, pressure switch, expansion vessel and automatic vent valve. They are standardly supplied with a remote control and digital control that can be used to manage the work of the stove and select the weekly programme.

CentroPelet		ZV16	ZV20	ZV24	ZV32
Heat output range	(kW)	4,00 - 17,1	5,08 - 18,22	5,1 - 22,14	8,57 - 30,48
Net weight	(kg)	160	230	230	280
Depth/width	(mm)	630/520	675/615	675/615	722/672
Height	(mm)	1115	1270	1270	1384
Pellet consume	kg/h	0,57 - 1,34	1,11 - 4,02	1,08 - 4,00	1,82 - 6,6



CentroPelet ZVB

Compact hot water boilers **CentroPelet ZVB** are **wood pellet** firing boilers. They are designed for hot water heating of the smallest up to medium sized facilities. They are made out of steel with modern design and high efficiency. The boiler has a built-in burner for combustion of wood pellets with the auto ignition and digital boiler regulation control which operates flue vent corresponding to flue and boiler water temperatures. They are supplied with a built-in circulation pump, safety valve, vent valve, pressure switch and expansion vessel. The pellet tank is an integral part of the boiler.

CentroPelet		ZVB16	ZVB20	ZVB24	ZVB32
Heat output range	(kW)	4,29 - 14,4	5,21 - 17,51	5,21 - 21,51	6,34 - 29,14
Net weight	(kg)	180	250	250	305
Depth/width	(mm)	700/562	785/610	785/610	870/670
Height	(mm)	1080	1240	1240	1360
Pellet consume	kg/h	1,02 - 3,37	1,11 - 4,02	1,2 - 4,85	1,43 - 6,48
Energy efficiency class		A*	A*	A*	A*




CentroPelet ZVBS

Hot water boilers **CentroPelet ZVBS** are **wood pellet** firing boilers. They are designed for hot water heating of the smallest up to medium sized facilities. They are made out of steel with modern design and high efficiency. The boiler has a built-in burner for combustion of wood pellets with the auto ignition and digital boiler regulation control which operates flue vent corresponding to flue and boiler water temperatures. The pellet tank is an integral part of the boiler.

CentroPelet		ZVBS 25	ZVBS 35
Heat output range	(kW)	5,21 - 25	6,34 - 35
Net weight	(kg)	250	305
Depth/width	(mm)	885/610	970/670
Height	(mm)	1240	1360
Pellet consume	kg/h	1,2 - 4,85	1,43 - 6,48
Energy efficiency class		A*	A*

Steel hot water boilers **Peltec** are engineered for **wood pellet** firing. In the boiler is installed the burner for wood pellet firing with the automatic firing and automatic self-cleaning function which enables the reliable operation also with the low quality wood pellets. The function of the automatic cleaning flue gas tubes provides the unifying exchange of the heat and high and unifying level of boiler efficiency. Multifunctional digital boiler controller in a basic version offers the possibility of modulating boiler operation and control the level of pellets in the tank. Inbuilt return flow protection ensures correct boiler operation also at the lower return flow temperatures. It is possible to install a lambda probe for additionally optimizing the combustion process. The pellet tank is the integral part of the boiler. The boiler is delivered in sections for easier transport into the boiler room. o the boiler can be connected additional equipment listed under section "Additional equipment for boilers with touch screen regulation".

		12	18	24	36	48	69	96
Heat output range	(kW)	3,6 - 12	5,4 - 18	7,2 - 24	10,8 - 36	14,4 - 48	20,7 - 69	28,8 - 96
Boiler mass	(kg)	328	349	402	455	478	730	830
Depth/width boiler	(mm)	1105/1200	1105/1420	1080/1420	1160/1485	1175/1485	1240/1940	1310/1965
Height of the boiler	(mm)	1560	1560	1560	1560	1560	1560	1560
Energy efficiency class		A+	A+	A+	A+	A+	A+	A+

PelTec / PelTec-lambda



**Cm Pelet-set Touch** central heating equipment is intended for installation on new or pre-installed EKO-CK P and EKO-CKB P hot water boilers rated 20 to 110 kW. The "Touch" model's specialty is digital color touchscreen control. Cm Pelet-set Touch and hot-water boiler make a functional unit, a "mini plant" for wood pellet firing. The automatic operation of these "mini-plants" provides the user with an high level of comfort and makes the equipment suitable for wide range of users. It is manufactured in accordance with EN 303-5 and ISO 9001. From an operational point of view, such systems do not fall behind compared to oil or gas powered heating systems. Wood pellets are a renewable energy source and an ecologically very acceptable fuel.

<b>Cm Pelet-set</b>		14	20	25	30	35	40	50	60	70	90
Type of the burner		CPPL-14	CPPL-35	CPPL-35	CPPL-35	CPPL-35	CPPL-50	CPPL-50	CPPL-90	CPPL-90	CPPL-90
Heat output range (set + boiler)	(kW)	14	20	25	30	35	40	50	60	70	90
Type - EKO-CK/-B P		20	25	30	35	40	50	60	70	90	110
Volume of the pellet CPSP	(lit.)	370	370	370	370	370	370	370	-	-	-
Volume of the pellet CPSP-800	(lit.)	800	800	800	800	800	800	800	800	800	800

Cm Pelet-set - Touch



**EKO-CKS P UNIT** hot water central heating boiler is designed for burning **wood pellets**. It consists of EKO-CKS P boiler body in welded steel design and equipment for combustion of wood pellets: Cm Pelet-set 200-600 kW. It is necessary to upgrade the EKO-CKS P UNIT boiler with a pellet tank (e.g. CentroPelet box), and EKO CKS P UNIT 560 boiler's standard delivery includes cyclone and fan. Standard version is equipped with a pellet burner prearranged for automatic air-cleaning of the grate while the boiler can be additionally equipped automatic ash removal set and aircleaning of flue passages in the boiler. Digital control manages the operations of the burner (boiler), pellet transporter and additional equipment and all mentioned parts compose a functional unit.

<b>EKO-CKS P UNIT</b>		140	180	230	280	320	430	499	560
Depth - without cyclone	(mm)	2620	3020	3020	3330	3330	4225	-	-
Width - without cyclone	(mm)	<sup>1</sup> 2105	<sup>2</sup> 2105	<sup>2</sup> 2105	<sup>2</sup> 2300	<sup>2</sup> 2400	<sup>2</sup> 2565	-	-
Width	(mm)	3300	3300	3300	3345	3420	3900	3600	4775
Depth - with cyclone	(mm)	<sup>3</sup> 3265	<sup>3</sup> 3650	<sup>3</sup> 3650	<sup>3</sup> 3985	<sup>3</sup> 4160	<sup>3</sup> 4690	5200	5200
Width - with cyclone	(mm)	<sup>3</sup> 2210	<sup>3</sup> 2210	<sup>3</sup> 2210	<sup>3</sup> 2580	<sup>3</sup> 2725	<sup>3</sup> 2895	2870	3230
Connections inlet/outlet	(R)/DN	2"	2"	DN80	DN80	DN80	DN100	DN100	DN100

EKO-CKS P Unit 140/180

<sup>2</sup>EKO-CKS P Unit 230-430<sup>3</sup>EKO-CKS P Unit 140-430 - with cyclone and fan (additional equipment)

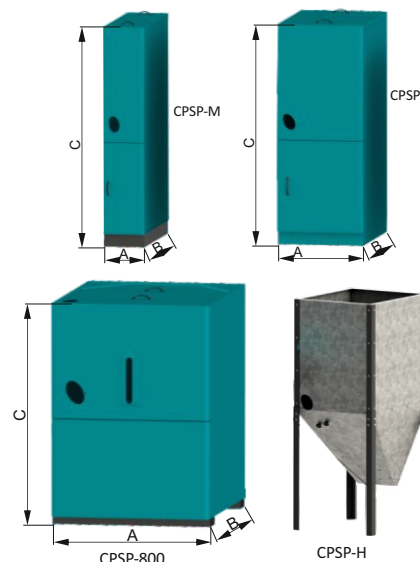
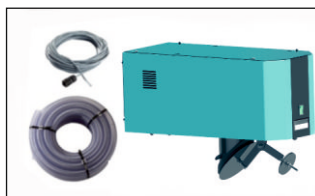
EKO-CKS P Unit 499-560 - with cyclone and fan (standard equipment)



EKO-CKS P Unit

Pellet tanks **CPSP** are intended for storage of **wood pellets** (230, 390, 800 l) and are installed into boiler rooms next to the boiler, where there is a possibility to connect the tank to the pellet burner by the means of screw feeder. The containers are made from powdercoated steel (CPSP-H is from galvanized steel). The screw transporter is installed into the tanks at an angle of 45°, and into the CPSP-800 tank it can also be installed on the upper side at an angle of 60°. It is possible to install two screw feeders into one tank (with the exception of CPSP-M). They are to be filled by hand (from bags) or using special equipment, automatic refill. Tanks are delivered dismantled which makes it easier to transport them and house.

<b>Pellet spremnik</b>		CPSP-M	CPSP	CPSP-H	CPSP-800
Volume	(lit.)	230	370	390	800
Capacity	(kg)	142	260	255	520
Width A	(mm)	300	625	625	1010
Depth B	(mm)	730	730	730	980
Height C	(mm)	1585	1585	1585	1395



Vacuum pellet suction system is meant for pellet systems up to 96 kW heat output where the storage room does not directly adjoin the room where the boiler is installed and an automatic transport is necessary. In order to ensure a continuous pellet supply, pellets are transported from bigger storage to the storage next to the boiler through flexible pipes up to 10 metres long. Supply system can be connected to three different pellet storage types: pellet storage with mole, large pellet tank CentroPelet Box and pellet tank with the feeder screw ( transporter ). The system has been tested for wood pellets supply sized 6 mm in diameter, manufactured according to DINplus or ENplus1, with a maximum share of dust < 0,7%.



CentroPelet box

**CentroPelet boxes** are designed for storing larger quantities of **wood pellets** (2,7 m<sup>3</sup>, 3,4 m<sup>3</sup>, 4,0 m<sup>3</sup>), and are installed either in boiler rooms next to boilers, where connection of the tank to the pellet burner with the feeding screw is possible, or as remote containers to fill intermediate tanks using a flexible coil. The pellet tank casing is made of steel. On one side there are windows for checking the pellet level.

CentroPelet box		2700	3400	4000
Volume	(m <sup>3</sup> )	2,7	3,4	4,0
Capacity	(t)	1,75	2,2	2,6
Width=Depth	(mm)	1650	1645	2010
Height	(mm)	2260	2715	2510



EKO-CKS Multi Plus

Steel hot warm water boilers **EKO-CKS Multi Plus** with **170 - 580 kW** efficiency are designed to be **fired by wood chips and wood pellets**. They can be installed in both closed and open central heating systems in medium and large facilities. Automatic operation of these systems provides the user with enviable comfort and makes the system suitable for wide application. Boilers are equipped with a moving grate for fuel burning, a lambda probe, an automatic fuel feeding system, automatic ignition, thermal protection, automatic ash removal from the combustion chamber and cyclone to extricate particles from fluegasses. They are distinguished by a successful combination of modern technologies and quality construction materials as well as simplicity of installation and use. Proven technical solutions make these boilers safe and reliable in operation.

EKO-CKS Multi Plus		170	250	340	450	580
Heat output range	(kW)	51 - 170	75 - 250	102 - 340	135 - 450	174 - 580
Mass boiler	(kg)	2500	3770	4260	5415	6135
Depth/width	(mm)	3885/2010	3885/2170	4235/2260	4720/2555	4720/2655
Height	(mm)	2270	2520	2520	2595	2775

### Wood chip feeding systems from a storage



These systems are designed for **wood chip** transfer (max. moisture content up to 35 %) from a storage room to the firing equipment BIO-CK P Unit, EKO-CKS Multi, EKO-CKS Multi Plus. They are equipped with a rotating plate with springs for wood chip mixing (Ø 1,2 - 5m) connected to a screw transporter (2,5-8m) which is driven by an electric motor with gearbox. The system is operated by the digital control of the boiler in its standard configuration.

### Wood chip tanks with a mixer and feeder



These systems are designed for storage and transportation of **wood chips** to the firing equipment of EKO-CKS Multi, EKO-CKS Multi Plus. They are manufactured so that they can be placed both indoors and outdoors. They are equipped with a screw transporter, an electric motor with gearbox and a wood chips mixer. Tanks are filled from the upper side after opening the lid and wood chips may contain up to 35% moisture. The system is operated by the digital control of the boiler in its standard configuration. Storage tanks are produced in following dimensions: 2,8m<sup>3</sup>, 5,5m<sup>3</sup>, 9m<sup>3</sup>, 18m<sup>3</sup>.

## Digital room corrector

- Wire version (2 wires, connection to CM2K module)
- Wireless version (connection on WiFi-box connected to the boiler)
- Changing set room temperature
- Basic control of the boiler
- Set of timers
- Weather forecast...



## CSK (analog room corrector)

- Possibility of set room temperature correction (according room temperature set on boiler regulation)
- Possibility to turn off heating circuit where room corrector is installed
- It can be connected only to the CM2K module and BioTec-L boiler.



CSK

## CM2K (additional heating circuits control)

- Possibility to control up to 2 heating circuits according to outside temperature and heating circuit curve (controlling up to 2 mixing valves with motor actuators and up to 2 heating circuit pumps or up to 2 DHW circuits or up to 2 recirculation circuits or up to 2 DHW circuits+recirculation).
- Possibility to connect up to 2 room correctors (additional equipment)
- Possibility to connect up to 4 CM2K modules (8 heating circuits)
- Possibility of connection to the PelTec, BioTec-L, BioTec Plus, Cm Pelet-set Touch, EKO-CKS P UNIT, EKO-CKS Multi Plus



CM2K

## CM WiFi-box (boiler monitoring and controlling through internet)

- Possibility of boiler monitoring with the PC, mobile phone, laptop, etc.
- Possibility to turn on / turn off boiler, temperatures adjustment, warning and error alarms by the PC, mobile phone, laptop, etc.
- Possibility of connection to the PelTec, Cm Pelet-set Touch, EKO-CKS P Unit, EKO-CKS Multi Plus boilers.



CM Wifi-box

## CM-GSM (boiler status information through SMS messages)

- Request for the boiler status phase of work, boiler temperature, through an SMS message in the selected language
- Notification of the boiler status through the mobile network text message or call (errors, warning..)
- Boiler start/stop by SMS
- Possibility of internet connection through mobile data connection (GPRS, SIM card with enabled call and mobile data connection is necessary).
- Possibility of connection to the PelTec, BioTec-L, BioTec Plus, Cm Pelet-set Touch, EKO-CKS P UNIT, EKO-CKS Multi Plus



CM-GSM

## CAL (error and warning sound and light information)

- Module for sound or light information about boiler error and warning
- Possibility of connection to the PelTec, BioTec-L, BioTec Plus, Cm Pelet-set Touch, EKO-CKS P UNIT, EKO-CKS Multi Plus boilers



CAL

## CMNET (boiler cascade connection)

- Possibility to cascade control 2 to 8 boilers
- For cascade of 2 boilers = 1x CMNET, for cascade 3 to 8 boilers = every boiler one CMNET
- Connection to the boilers by UTP cables
- Possibility of connection to the PelTec, BioTec-L, BioTec Plus, Cm Pelet-set Touch, EKO-CKS P UNIT, EKO-CKS Multi Plus boilers



CMNET





SKB-Digi



LKB-Digi

**SKB-Digi** combined stainless steel hot water heaters with volumes of 80, 100 and 120 litres, and **LKB-Digi** with volumes of 100 and 120 litres, with a built in digital controller, are designed for both heating and the accumulation of domestic hot water for households, restaurants and other premises where domestic hot water is needed. The availability of domestic water heating, through the boiler circuit connected to the tube heat exchanger or through the built-in electrical heater, makes these products very attractive. Their main characteristic is their very balanced domestic water flow and pressure, independently of the draining points used. This means that more than one person can draw hot water at the same time. Boilers are made out of stainless steel, which guarantees hygiene.

		SKB Digi			LKB Digi	
		80	100	120	100	120
Capacity	(l)	80	100	120	100	120
Water heater mass	(kg)	31	35	39,5	35,5	40
Water heater diameter	(mm)	475	475	475	475	475
Length of the water heater	(mm)	815	950	1090	950	1090
Energy efficiency class		C	C	C	C	C



TB  
(inox)



SF/E  
(enamelled)

**TB**, stainless steel water heaters, with volumes of **120, to 850** litres, and **SF/E** enamelled water heaters, with volumes of **150-1000** liters, are engineered for both heating and the accumulation of domestic hot water with the connection to a boiler circuit or to another heat source, being part of a designed system configuration. Often they are connected to solar systems to give additional accumulation with STB or SDFE/E solar water heaters.

TB (inox)		120	150	200	300	600	850
Capacity	(l)	121	150	200	294	545	860
Boiler mass	(kg)	36	39	46	62	118	151
Boiler diameter	(mm)	640	640	640	640	810	960
Height of the boiler	(mm)	1020	1210	1420	1900	1995	1940

SF/E (enamelled)		150	200	300	400	500	600	800	1000
Capacity	(l)	144	191	304	408	498	562	830	925
Boiler mass	(kg)	69	87	116	136	161	173	258	274
Boiler diameter	(mm)	600	600	650	750	750	750	990	990
Height of the boiler	(mm)	950	1215	1570	1500	1800	2000	1990	2190



STB  
(inox)



SDFE/E  
(enamelled)

**STB** solar hot water heaters, with volumes of **200 to 850** litres and **SDFE/E** enamelled solar water heaters with volumes of **200 to 1000** liters, are engineered for heating and accumulation of domestic hot water using solar energy, for additional heating with a boiler and for alternative heating using additional electrical heater.

STB (inox)		200	300	600	850
Capacity	(l)	198	283	537	850
Boiler mass	(kg)	49	66	125	162
Boiler diameter	(mm)	640	640	810	960
Height of the boiler	(mm)	1420	1900	1995	1940

SDFE/E (emajlirani)		200	300	400	500	600	800	1000
Capacity	(l)	191	304	408	498	562	830	925
Boiler mass	(kg)	98	134	152	185	205	279	318
Boiler diameter	(mm)	600	650	750	750	750	990	990
Height of the boiler	(mm)	1215	1570	1500	1800	2000	1990	2190



CH

**CH**, stainless steel water pressure tanks (with water volumes of 90 to 300 litres) are engineered to collect drinking water for domestic household and other premises (hotels, restaurants) where larger quantities of such water under particular pressure is needed. They are also used to meet the need for water supply and storage in industry processing. They are made of stainless steel and constructed using the latest technologies, guaranteeing high hygienic standards, as well as reliability, safe operation and a long life for the unit.

CH		90	140	180	300
Water content	(l)	90	140	180	300
Tank mass	(kg)	17	22	25	38
Container diameter	(mm)	480	480	480	480
Container height	(mm)	690	980	1200	1880



The **CPK 7210N Alu** flat plate solar collector, is a high quality and attractively designed modern product. It is engineered for domestic water heating systems, swimming pool heating and for central heating systems with the ability to store accumulated heat. The CPK 7210N Alu flat plate collector is made of high quality materials, which give it a long life while operating under different atmospheric conditions. Use of a high quality surface coating and a single absorbing panel across the whole surface of the collector, provides the best possible heat transfer and the optimal usage of the absorbing surface.

		CPK 7210N Alu
Brutto area	(m <sup>2</sup> )	2,1
Collector weight	(kg)	32
Collector width	(mm)	1031
Collector height	(mm)	2032



CPK 7210N Alu

The **CVSKC-10** vacuum tube solar collector has been engineered to meet a typical market need, which is for high efficiency in less ideal conditions. This vacuum tube collector shows advantage in exactly that situation, when flat plate collectors lose their efficiency, during low radiation periods or when there is high temperature differences. The collector tubes are evacuated, which cuts energy loss. Under the tubes there are parabolic mirrors, which direct radiation towards the whole absorbent surface and increase its efficiency.

		CVSKC-10
Brutto area	(m <sup>2</sup> )	1,84
Collector weight	(kg)	36
Collector width	(mm)	1120
Collector height	(mm)	1650



CVSKC-10

### CM-SOL (solar controller)

- Universal solar controller with touchscreen and possibility of connection additional equipment (Cm WiFi-box, web portal...).
- 10 inputs (Pt1000 or NTC5k) and 8 outputs.
- Controlling up to 4 tanks, 2 collector circuits, 2 boilers, electric heater, recirculation, flow meter, pressure switch...
- Protection functions: collector cooling (through tanks), tanks cooling (through collectors or recirculation), disinfection (legionella protection), pumps and valves blockage protection.
- Statistics view (numeral and graphical view), errors/warnings list, glycol replacement warning.
- Electric heater regulation.
- Protection of circulation pumps against to high temperature.
- View of energy received from Sun in kWh.
- Delivery in box with all needed temp. sensors.



Cm-SOL

### Differential thermostat

- Differential thermostat is intended for installation in solar systems or central heating systems where it is needed to switch on (switch off) the pump according to the set (adjusted) temperature difference.
- Compact housing for easy mounting on the wall.
- The selection of the differential thermostat operation: automatic (auto) or manual.
- Possibility to set the thermostat switch on/off interval: 0-20°C.



Differential thermostat

Important elements of solar systems definitely are solar pump groups **CSPG TL-6600**. In solar pump group **CSPG TL-6600** are all necessary elements (with collectors, tank, regulation, solar airvent valve and expansion vessel) which are needed for normal functioning of solar system. If there is additional accumulation tank, beside solar pump group CSPG TL-660, **3-way zone valve** is needed and used for solar system expansion. With advantage to have all necessary functional and safety elements in one device, solar pump groups are thermic and sound isolated, they demand small area and are easy for installation.

		CSPG TL-6600
Pump	(tip)	Grundfos Solar UPM3 15/75-130
Medium		water and max. 50% glycol
Width	(mm)	250
Height	(mm)	430



CSPG TL-6600



3-way zone valve



EKO-CUP M3 and EKO CUP M3 Bg

**EKO-CUP M3** steel hot water boilers (heat outputs 18- 80 kW) and **EKO-CUP M3 Bg** (heat outputs 25-80 kW) are of modern design and are notable for their high efficiency level resulting from continual development of design features, the application of modern technologies and the use of high quality materials. These factors also make these boilers safe and reliable. Economy of use is assured by the triple-pass combustion gas flow system. A special feature of **EKO CUP-M3 Bg** boilers is an integrated domestic stainless steel water heater which is placed inside the boiler's water chamber. This feature makes the product especially interesting because the control functions of the boiler are always able to maintain the required temperature of domestic hot water.

EKO CUP M3/M3 Bg		18	25	35	50	65	80
Heat output range	(kW)	15 - 18	18 - 25	25 - 35	35 - 50	50 - 65	65 - 80
Boiler mass	(kg)	105	117 / 195	147 / 220	168 / 236	206 / 275	235 / 315
Depth/width boiler	(mm)	1175/500	1275 / 500	1275/580	1275/630	1275/690	1315/690
Height of the boiler	(mm)	790	790 / 1185	860 / 1255	890 / 1285	960 / 1355	960 / 1355
DHW tank volume	(l)	-	- / 80	- / 80	- / 80	- / 80	- / 120



EKO-CUP S3

**EKO-CUP S3** steel hot water boilers (heat output range 125 - 600 kW) are engineered to meet heating requirements in the middle to large premises, as well as to be the heat source for manufacturing and processing. The boiler can be configured as a stand alone unit or as a series of modular units. This product is a synthesis of modern technologies and is presented in high quality materials ready for simple and easy assembly and operation. The fully developed and tested technical solutions applied assure these boilers are safe and reliable. The triplepass flue gas flow system is a key element of their low energy consumption. The wide range of available control devices, as additional equipment, enables the customer to benefit from a fully automatic direct or remote controlled heating center.

EKO CUP S3		125	160	240	320	400	460	530	600
Heat output range	(kW)	37,5 - 125	48 - 160	72 - 240	96 - 320	120 - 400	138 - 460	168 - 530	180 - 600
Boiler mass	(kg)	445	563	673	867	1066	1184	1418	1515
Depth/width boiler	(mm)	1660/780	1510 / 945	1913/945	1930/1050	1985/1150	2285/1150	2285/1250	2530/1250
Height	(mm)	1080	1210	1210	1320	1420	1420	1520	1520



EKO-CUP V3/SV3

**EKO-CUP V3** steel hot water boilers (heat output range 0,8 - 1,5 MW) and **EKO-CUP SV3** (heat output range 0,75 - 2,5 MW) are engineered to meet heating requirements in the middle to large premises, as well as to be the heat source for manufacturing and processing. The boiler can be configured as a stand alone unit or as a series of modular units. This product is a synthesis of modern technologies and is presented in high quality materials ready for simple and easy assembly and operation. The fully developed and tested technical solutions applied assure these boilers are safe and reliable. The triplepass flue gas flow system is a key element of their low energy consumption. The wide range of available control devices, as additional equipment, enables the customer to benefit from a fully automatic direct or remote controlled heating center.

EKO CUP V3		800	1000	1250	1500	2500
Heat output range	(kW)	240 - 800	300 - 1000	375 - 1250	450 - 1500	750 - 2500
Boiler mass	(kg)	1705	1970	2280	2550	
Depth/width boiler	(mm)	2485/1400	2525 / 1470	2525/1585	2480/1675	3480/1930
Height	(mm)	1700	1750	1955	2000	2145



Boiler regulation Cm with built-in regulators E8.0634 i E8.1124

#### BOILER REGULATION Cm WITH BUILT-IN REGULATOR Elfatherm E8.0634

- Regulation of the boiler circuit (cascade of two boilers with single-stage burners or one two-stage burner).
- Regulation of two mixing valve circuits (or address the individual as a DHW circuit).
- Regulation of DHW circuit.
- Regulation of the return flow protection pump (or addressing as a solar or boiler pump).
- Regulation of the recirculation pump.

#### BOILER REGULATION Cm WITH BUILT-IN REGULATOR Elfatherm E8.1124

- Regulation of the boiler circuit by basic boiler regulation.
- Regulation of two mixing valve circuits (or address the individual as a DHW circuit).
- Regulating of the recirculation pump.

#### BOILER REGULATION Cm WITH BUILT-IN REGULATORS Elfatherm E8.0634 AND E8.1124

- Regulation of the boiler circuit (cascade of two boilers with single-stage burners or one two-stage burner).
- Regulation of 4 mixing valve circuits.
- Regulation of DHW circuit.
- Regulation of the return flow protection pump (or addressing as a solar or boiler pump).
- Regulation of 2 recirculation pumps (time relay).



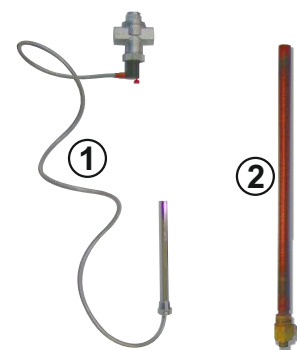
Flue gas tubes and elbows are engineered for quick and easy connection of all kinds of boilers to the chimney.

Flue gas elbow	(mm)	Ø118	Ø130	Ø150	Ø160	Ø180	Ø200	Ø250	Ø300
Weight	(kg)	2,1	2,3	2,9	3,1	3,5	3,9	5,5	11,6
Flue gas tube L=500	(mm)	Ø118x500	Ø130x500	Ø150x500	Ø160x500	Ø180x500	Ø200x500	Ø250x500	Ø300x500
Weight	(kg)	2,6	3,3	3,8	3,8	4,5	5,1	5,5	5,5
Flue gas tube L=1000	(mm)	Ø118x1000	Ø130x1000	Ø150x1000	Ø160x1000	Ø180x1000	Ø200x1000	Ø250x1000	Ø300x1000
Weight	(kg)	5,3	6,6	7,6	7,6	9,0	10,2	12,6	12,6

Hot water boilers designed for manual firing with solid fuel, installed in closed central heating system must have, among other safety regulation equipment, built-in thermal protection. Thermal protection protects the boiler from overheating due to power failure or circuit pump failure. The thermal protection cools the boiler with domestic water supply system that is connected to the public water supply and not from the water pressure tank. Cooling the boiler starts at the temperature of the boiler water 95°C. In case of power failure or circuit pump failure and boiling temperature above 95°C thermal protection is obliged to prevent boiler water temperature rise above 110°C. For proper operation of thermal protection, it is essential to use the boiler in accordance with its technical instructions. Thermal protection is not intended to protect the boiler from overheating caused by irresponsible and improper use of the boiler.

Thermal protection parts:

1. **Thermal valve** - the thermal valve sensor is installed in the boiler, feels boiler water temperature, if it rises above 95°C, the thermal valve opens cold water from the domestic water supply and cools the boiler.
2. **Thermal exchanger** - is installed in the boiler and serves for conducting water supply through the boiler and as a heat exchange surface between boiler and water supply.



Thermal protection

Hot water boilers that can be connected directly to the central heating systems without CAS accumulation tanks and are fired with solid fuel or with oil/gas and have only basic boiler control must have a built-in **four-way manual mixing valve**. This valve serves to protect the boiler from condensation of steam vapor in the flue gas and allows the regulation of the flow temperature in the installation of central heating. It is recommended to install the thermometer on the heating flow line immediately after the four-way manual mixing valve due to the possibility of monitoring the set temperature of the flow line in the central heating installation.

#### The operation of the four-way manual mixing valve:

By changing the ratio of mixing the inlet water from the boiler and the return water from the heating installation, the desired flow temperature of the central heating system is set up.

On the thermometer behind the four-way manual mixing valve, the adjusted flow temperature of the central heating system is monitored.

Boiler power (kW)	4-way mixing valve
14-50	5/4"
51-70	6/4"
71-110	2"



4-way manual mixing valve

Three-way thermostatic valves **ESBE VTC 512 and 531** are designed for installation in central heating systems with boilers with solid fuel firing (Bio-Tec, BioSolid, EKO-CK P, EKO-CKB P CentroPlus, -/B ...) and CAS accumulation tanks, in order to protect boilers from flue exhaust gas condensation. ESBE VTC 512 and 531 valves enable operating temperature to be reached very quickly and subsequently to be maintained, by regulating the flow between the boiler's outlet to the central heating system and a return connection directly back to the boiler. The ESBE VTC 512 and 531 is connected to the system together with the circulation pump.

Heat output range (kW)	Connection VTC 512 (outher thread)	Connection VTC 531 (inside thread)	Circulation pump type (like Grundfos)	Volume of CAS accumulation tank for Bio-Tec / -L wood gasification boilers
14 - 20	5/4"	6/4"	UPS 25/32-40	Minimum 50 litres / kW of boiler
21 - 30	5/4"	6/4"	UPS 32-60	
31 - 40	5/4"	6/4"	UPS 32-60	
41 - 50	5/4"	6/4"	UPS 32-60	
51 - 60	6/4"	2"	UPS 32-60	
61 - 70	6/4"	2"	UPS 32-55	



3-way load valve ESBE VTC

The **ESBE LTC 261 and 271** 3-way thermostatic valves are designed to be used with the solid fuel firing central heating systems (Bio-Tec, BioTec-L, BioTec-Plus, BioSolid, EKO-CK P, EKO-CKB P, CentroPlus, -/B) and CAS accumulation tanks in order to protect boilers from condensation of flue exhaust gases. ESBE VTC 261 and 271 valves enable operating temperature to be reached very quickly and subsequently to be maintained, by regulating the flow between the boiler's outlet to the central heating system and a return connection directly back to the boiler, by maintaining the return line always over 60°C. There is built-in circulation pump, thermostatic valve (60°C), stop valves and thermometers. **ESBE CRA 111/121** is a motor actuator with a controller for maintaining a constant return flow temperature (must be set at 60°C), which is intended for installation on 3way mixing valves from DN50 to DN150. They are designed for installation with bigger boilers (71-580 kW).

Heat output range (kW)	Connection LTC 261 (outher thread)	Connection LTC 271 (inside thread)	Connection VTC 512 + pump like Grundfos Magna3 32-60 (pump like Grundfos UPS 32-60)	Connection CRA111 + 3-way valve + pump	Connection CRA121 + 3-way valve + pump
14 - 40	5/4"	--	--	--	--
41 - 50	--	6/4"	--	--	--
51 - 70	--	--	6/4"	--	--
71 - 110	--	--	--	DN50	--
111-580	--	--	--	--	DN65-DN150



3-way load valve ESBE LTC 261,271 + ESBE CRA 111

- it consists of: safety valve, airvent valve, manometer



Safety airvent group





EI-Cm Classic



EI-Cm ePlus

The **EI-Cm Classic**, range of electric boilers (with nominal heat output of **6, 9, 12, 18, 24 and 27 kW**) and the **EI-Cm ePlus** (with nominal heat output of **6, 9, 12, 18 and 24 kW**) are designed for installation in smaller premises as a primary as well as secondary heat source.

Today they are frequently used for heating up domestic hot water in accumulator tanks connected to the heat exchanger of the boiler. Boilers are equipped with a circulation pump, expansion vessel, the most modern modulating digital controller and appropriate safety elements.

Of modern design, they can be installed anywhere in a house because of their absolutely noiseless operation and because they do not need to be connected to a chimney. The wide application of modern technologies and the quality of the material used as well as thoroughly tested operation, which include a modulating activating of the electric heaters, to prevent electric surges on the power supply, make these boilers safe and reliable.

EI-Cm Classic		6	9	12	18	24	27
Heat output range	(kW)	6	9	12	18	24	27
Boiler mass (without water)	(kg)	23	24	24	25	25	25
Depth/Width	(mm)	230/430	230/430	230/430	230/430	230/430	230/430
Height	(mm)	710	710	710	710	710	710
Energy efficiency class		D	D	D	D	D	D

EI-Cm ePlus		6	9	12	18	24
Heat output range	(kW)	6	9	12	18	24
Boiler mass (without water)	(kg)	25	25	25	25	25
Depth/Width	(mm)	230/430	230/430	230/430	230/430	230/430
Height	(mm)	710	710	710	710	710
Energy efficiency class		D	D	D	D	D



EI-Cm Basic

Steel hot water boilers **EI-Cm Basic** with rated thermal output of **6, 9, 12, 18, 24, 27, 30 and 36 kW** are intended for heating small houses or flats as self-contained or as auxiliary source of heat on electricity, while boilers with rated thermal output **40, 45, 50, 60, 70, 80, 90, 100 kW** are intended for heating larger area, houses, flats or production halls. Today, they are increasingly being used to heat domestic hot water in accumulation tanks by connecting them to a DHW tank exchanger.

EI-Cm Basic		6	9	12	18	24	27	30	36	40	45	50	60	70	80	90	100
Heat output range	(kW)	6	9	12	18	24	27	30	36	40	45	50	60	70	80	90	100
Boiler mass (without water)	(kg)	14	15	15	20	20	20	30	30	31	32						
Depth/Width	(mm)	125/320	125/320	125/320	160/370	160/370	160/370	180/540	180/540	180/540	180/540						
Height	(mm)	620	620	620	620	620	620	620	620	620	620						
Energy efficiency class		D	D	D	D	D	D	D	D	D	D						



CKK

**CKK** container boiler rooms intended to be connected to central heating systems with domestic hot water processing as a temporary or even permanent solution. According to need, oil or gas firing boilers can be installed with nominal heat outputs of 18 to 1500 kW or biomass firing boilers with nominal heat outputs from 12 to 340 kW. The boiler rooms can be provided with all necessary equipment. To install with a central heating system it is only necessary to provide an appropriate chimney, electric power supply connection, water supply and the fuel. The compact layout assures simple handling, maintenance and transfer. The heating room has its own thermal insulation and it is manufactured in accordance with ISO 9001 and ISO 14001.



OPC

**OPC** open expansion vessels are engineered for installation in open central heating systems. They are made of welded steel construction and painted in a basic colour. Ready to be installed on to vertical surface (wall or carrier), in a **horizontal or vertical position**. Standard delivery does not include insulation.

OPC		30	50	100	200
Capacity	(lit.)	30	50	100	200
Vessel length	(mm)	500	750	835	1150
Vessel diameter	(mm)	300	300	400	480
Total width	(mm)	350	350	455	535
Connection	(R)	1"	1"	5/4"	6/4"
Mass	(kg)	13	18	26	42

# BY ORDER

Pellet firing stoves Centropelet **Z14, Z16, Z12CAN, Z14CAN, Z16CAN** are hot air wood pellet firing stoves that heat the room with hot air using a fan built in the stove. They are made of steel with modern design and high efficiency.. CentroPelet **Z12CAN, Z14CAN and Z16CAN** have the possibility of channel hot air distribution in near rooms. The delivery standardly includes a digital control that can be used for controlling the operation of the stove.



CentroPelet  
**Z14, Z16, Z12CAN, Z14CAN, Z16CAN**

Pellet firing stoves Centropelet **ZRGL8, ZRGL12, ZRGL12CAN** are hot air wood pellet firing stoves with rounded glass that heat the room with hot air using a fan built in the stove. They are made of steel with modern design and high efficiency. CentroPelet **ZRGL12CAN** have the possibility of channel hot air distribution in near rooms. The delivery standardly includes a digital control that can be used for controlling the operation of the stove. The main advantage is easy operation, maintenance and installation.



CentroPelet  
**ZRGL8, ZRGL12, ZRGL12CAN**

Pellet firing stoves Centropelet **ERMETICA 98ZHE 6, 98ZHE 8, 98ZHE 10CAN, 98ZHE 12CAN** are hot air wood pellet firing stoves with very high efficiency (up to 98%) that heat the room with hot air using a fan built in the stove. They are made of steel with modern design. CentroPelet **98ZHE 10CAN, 98ZHE 12CAN** have the possibility of channel hot air distribution in near rooms. The delivery standardly includes a digital control that can be used for controlling the operation of the stove. The main advantage is easy operation, maintenance and installation.



CentroPelet  
**ERMETICA 98ZHE 6, 98ZHE 8,  
98ZHE 10CAN, 98ZHE 12CAN**

Hot water stoves Centropelet **ZVC14, ZVC20, ZVC24, ZVC28, ZVC32** are wood pellet firing stoves intended for heating the room with air by means of a built-in fan and water through the radiator central heating. They are made of steel with modern design and high efficiency. They have a built-in circulation pump, safety valve, pressure switch, expansion vessel and automatic vent valve. They are standardly supplied with a remote control and digital control that can be used to manage the work of the stove and select the weekly programme.



CentroPelet  
**ZVC14, ZVC20, ZVC24, ZVC28, ZVC32**

Hot water stoves Centropelet **ZVRGL17, ZVRGL20, ZVRGL24** are wood pellet firing stoves with round glass intended for heating the room with air by means of a built-in fan and water through the radiator central heating. They are made of steel with modern design and high efficiency. They have a built-in circulation pump, safety valve, pressure switch, expansion vessel and automatic vent valve. They are standardly supplied with a remote control and digital control that can be used to manage the work of the stove and select the weekly programme.



CentroPelet  
**ZVRGL17, ZVRGL20, ZVRGL24**



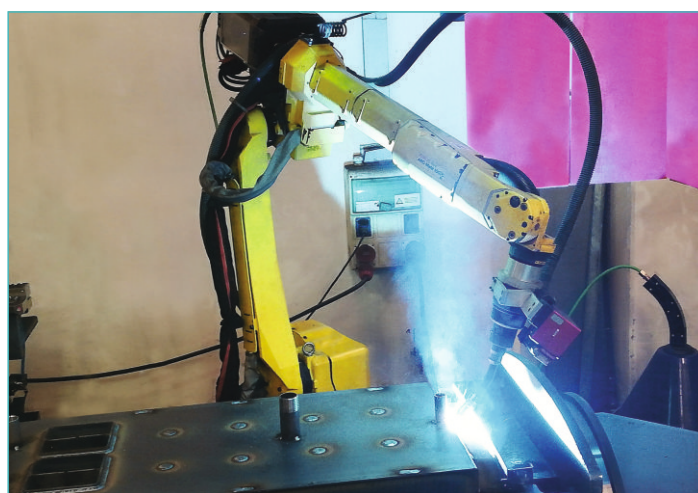
Centrometal d.o.o. manufactures using up to date machines and technology, which assure high quality and consistency. Production of equipment in stainless steel is separated from the rest of the operations, in order to satisfy the particularly demanding quality standards of such work. Continuous modernizing of production methods supports the call for growth in capacity, simplifies the work itself and maintains the quality of our products. Our goal is total customer satisfaction.



**Centrometal - 2019.**



Cutting of metal sheets using modern laser technology



Robotic welding of the boilers



Robotic welding of stainless steel water heaters



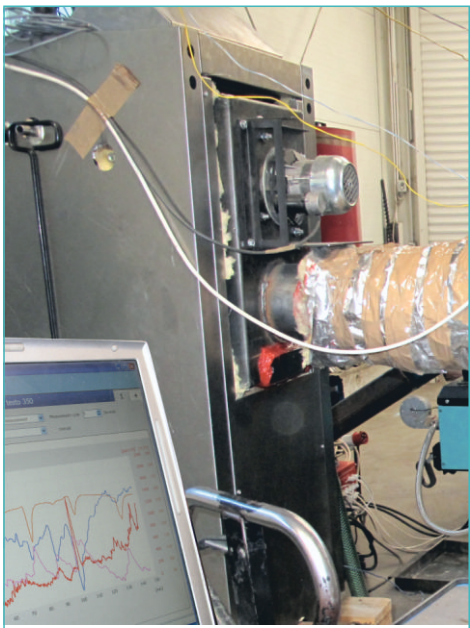
Robotic welding of the boilers



Centrometal d.o.o.products are fully tested and certified according to Croatian and European norms and guidelines, as well as required by the laws in force in the Republic of Croatia and in other markets, where the company is represented. Development and manufacturing process tests are carried out in our own test laboratory, according to the standards determined by our quality systems. Testing of different models and finished products is also made by independent institutions in Croatia, across Europe and beyond.



Modern testing station for boiler testing



Testing of the boiler

Before launching on any of our markets, our products have been tested and provided with all necessary certificates and approvals, guaranteeing their quality and safe operation.



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FAKULTET STROJARSTVA I BRODOGRADNJE  
Laboratorij za toplinu i toplinske uređaje  
I. Lučića 5, 10000 Zagreb Tel.: (01) 616 8223 Fax: (01) 615 6940  
www.fsb.hr/termolab e-mail: termolab@fsb.hr



STROJIRENSKÝ ZKUŠEBNÍ ÚSTAV, s. p.  
(ENGINEERING TEST INSTITUTE, Public Enterprise)  
Hudcova 56b, 621 00 Brno, Czech Republic



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za elektrotehniku



TCM  
Versuchsanstalt



SIQ  
Slovenski institut za kakovost in meroslovje  
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**Centrometal**  
HEATING TECHNIQUE

**Centrometal d.o.o.**  
**Glavna 12, 40306 Macinec, Croatia**

**<http://www.centrometal.hr> / e-mail: [komercijala@centrometal.hr](mailto:komercijala@centrometal.hr)**

**central: +385 (0)40 372 600**

**commercial: +385 (0)40 372 610 / commercial fax: +385 (0)40 372 611**

**branch office Zagreb: +385 (0)1 4633 762 / branch office fax: +385 (0)1 4633 763**

[www.centrometal.hr/en](http://www.centrometal.hr/en)



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