

CentroPlus and CentroPlus-B



Two combustion chamber boilers

CentroPlus and **CentroPlus-B** steel hot water boilers with nominal heat output of 25, 35 and 49 kW have two separate combustion chambers in common boiler water. The left combustion chamber is used for burning solid fuel, and the right for burning pellets or liquid fuel. The possibility of combining solid fuel heating and automatic switching on of oil or pellet burners at the moment when solid fuel does not meet the need for heat, makes this boiler especially interesting.

A special feature of **CentroPlus-B** boilers is the built-in stainless steel tank for domestic hot water immersed in boiler water, which makes it extremely interesting, because it ensures constant heating of hot water in the tank without additional investment. The successful combination of modern technologies and quality construction materials with proven technical solutions give the boilers safety and reliability in operation with ease of installation and use. They are made in accordance with the European standard EN 304 and EN 303-5.



CHOPPED WOOD, UP TO
0,5m



WOOD BRIQUETTES



CHARCOAL



WOOD PELLETS



FUEL OIL

WITH ADDITIONAL EQUIPMENT



Characteristics of CentroPlus and CentroPlus-B boilers

- CentroPlus hot water boiler intended for central heating, fired with solid fuel, solid and liquid fuels and solid fuels and pellets, with a rated heat output of 25, 35 and 49 kW.
- Possibility of alternating use of both combustion chambers.
- Only one flue connection.
- Possibility of installing a thermal protection on the factory-prepared openings.
- A separate boiler body, separate casing with thermal insulation and separate oil or (Cm Pellet-set Touch) burner are supplied which allows easy transport and installation and reduces risk from damage.
- The delivery of the boiler includes a thermometer, cleaning accessories, ashtrays and a draft regulator.
- The CentroPlus-B boiler (25, 35 and 49 kW) has a built-in stainless steel hot water tank that does not require a special circulation pump, which would otherwise be needed if the tank is outside the boiler.
- The boiler has been tested and certified according to the European standard EN 303-5 and EN 304 and manufactured in accordance with the standard ISO 9001 and ISO 14001.

Solid fuel combustion chamber

- Adequately dimensioned combustion chamber with triple pass flue gas flow ensure a high degree of efficiency of the boiler, which makes it "economical".
- The large door and the combustion chamber of the boiler allow heating with large solid fuel and easily cleaning and maintenance.

Liquid fuel / pellet furnace

- Properly dimensioned combustion chamber with turbulators ensures a high degree of boiler efficiency, which makes it "economical".
- Lot of water in the boiler reduces the number of starts and prolongs the life of the burner and saves energy.
- The right boiler door is prepared for the installation of a pellet/oil burner.



Thermometer, draft
regulator connector



Boiler
connections



Cable holders



Cleaning accessories



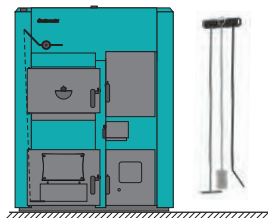
Boiler delivery
CentroPlus



Boiler delivery
CentroPlus-B

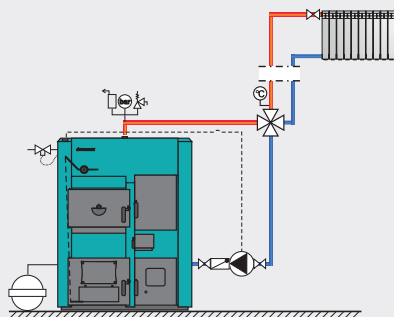


Delivery and obligatory additional equipment:



Delivery

- Boiler body with boiler doors
- Exterior casing with insulation and pump thermostat, draft regulator, set (screws, dowels, plug, rosettes), cleaning accessories (scraper, poker, brush, accessory holder)



Solid fuel firing, without CAS buffer tank

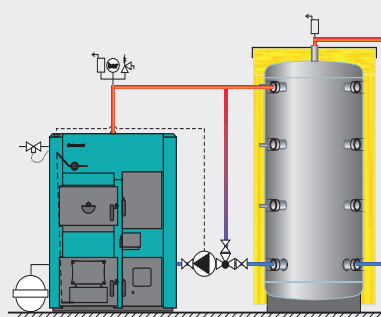
- Manual 4-way mixing valve

Closed heating system

- Thermal valve, thermal exchanger (only 49kW), safety airvent group (2.5 bar) and expansion vessel

Open heating system

- Open expansion vessel



Solid fuel firing, with CAS buffer tank

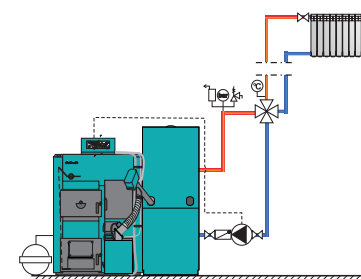
- Buffer tank CAS (30lit/kW), 3-way thermostatic valve LTC, VTC ... (60°C)

Closed heating system

- Thermal valve, thermal exchanger (only 49 kW), safety airvent group (2.5 bar) and expansion vessel

Open heating system

- Open expansion vessel



Wood pellet firing

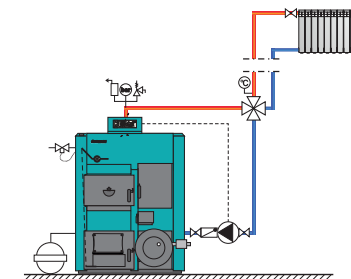
- Cm Pelet-set Touch (25 / 35kW) with fan flap
- Manual 4-way mixing valve or buffer tank CAS (30lit/kW) and LTC, VTC ... (60°C)

Closed heating system

- Safety airvent and expansion vessel

Open heating system

- Open expansion vessel



Fuel oil firing only

- Boiler controller EKO-CK/CKB
- Fuel oil burner; manual 4-way mixing valve or buffer tank CAS and LTC, VTC ... (60°C)

Closed heating system


- Safety airvent group and expansion vessel


Open heating system

- Open expansion vessel

Basic dimensions

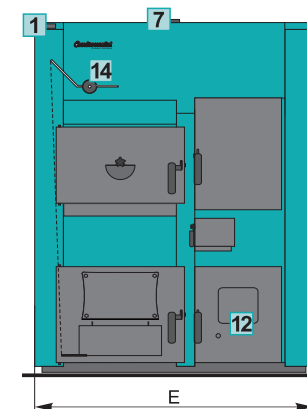
1	Thermometer	6	Cold DHW	10	Filling/draining
2	Pump thermostat connector	7	Main flow	11	Ash box, right side
3	Safety line	8	Thermal protection sensor mounting hole	12	Pellet/fuel oil burner installation door
4	Hot DHW	9	Return flow	13	Flue gas tube
5	DHW recirculation			14	Draft regulator

CENTROPLUS		25	35	50
Rated heat output	[kW]	25	35	49
Boiler water content	[l]	175	190	243
DHW tank water content	[l]	-	-	-
Boiler mass	[kg]	464	522	650
Flue gas tube diameter*/height	Ø [mm]	150/955	160/955	180/955
Chimney underpressure	[Pa]	17	19	22
Main/Return flow	[R]	5/4"	5/4"	5/4"
Safety line	[R]	3/4"	3/4"	3/4"
Filling/Draining	[R]	1/2"	1/2"	1/2"
Cold/hot DHW connection	[R]	-	-	-
Recirculation connection	[R]	-	-	-
Max. operating temperature	[°C]	90	90	90
Max. operating overpressure	[bar]	2,5	2,5	2,5
Boiler body dimensions AxBxC	[mm]	1065x820x1260	1065x890x1260	1140x1040x1260
Total boiler dimensions DxExF	[mm]	1065x915x1260	1065x1015x1260	1140x1145x1260
Boiler base depth	[mm]	635	635	710
Total depth with pellet burner G	[mm]	1350	1350	1420
Energy efficiency class		A	A	-

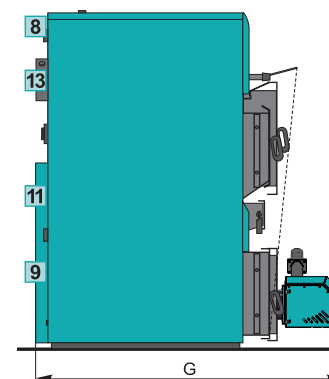
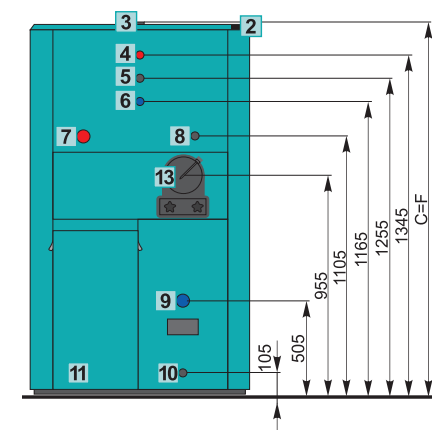
CENTROPLUS-B		25	35	50
Rated heat output	[kW]	25	35	49
Boiler water content	[l]	192	192	243
DHW tank water content	[l]	80	80	100
Boiler mass	[kg]	512	522	650
Flue gas tube diameter*/height	Ø [mm]	150/955	160/955	180/955
Chimney underpressure	[Pa]	17	19	22
Main/Return flow	[R]	5/4"	5/4"	5/4"
Safety line	[R]	3/4"	3/4"	3/4"
Filling/Draining	[R]	1/2"	1/2"	1/2"
Cold/hot DHW connection	[R]	3/4"	3/4"	3/4"
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Max. operating overpressure	[bar]	2,5	2,5	2,5
Boiler body dimensions AxBxC	[mm]	1070x820x1560	1065x890x1560	1140x1040x1560
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Total depth with pellet burner G	[mm]	1350	1350	1420
Energy efficiency class		A	A	-

* the inner diameter of the chimney is determined according to the power of the boiler and the height of the chimney and must almost always be larger than the diameter of the flue gas tube

CentroPlus



CentroPlus-B



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CentroPlus and CentroPlus-B boilers

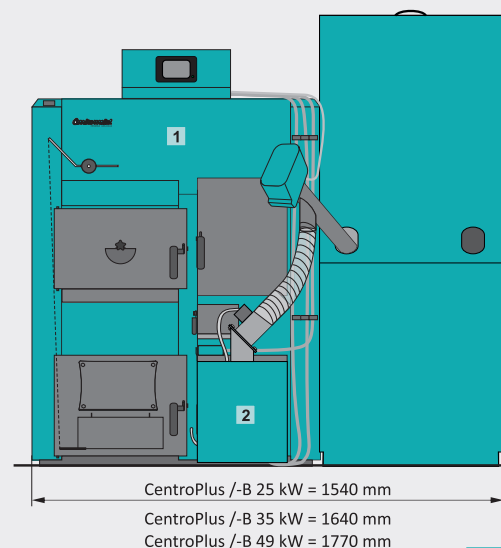
FOR SOLID FUEL AND PELLET FIRING

CentroPlus and **CentroPlus-B** steel hot water boilers can be fired with pellets and solid fuel. For this type of heating, it is necessary to install a **Cm Pelet-set Touch with a fan flap**, a manual 4-way mixing valve or a buffer tank on the boiler.

In addition to firing only with pellets or only with solid fuel, a combination of firing with solid fuel and semi-automatic switching on of pellet burner is possible at a time when solid fuel does not meet the need for heat. The operation of this "mini" plant is controlled by digital controller in combination with a draft regulator when using solid fuel. The pellet tank is an integral part of the plant and is filled from the top (pellet tank volume 0.37 m³ or 0.8 m³). When burning wood pellets, the savings in fuel are up to 40% compared to the heating system with fuel oil. It is also possible to install an oil burner and boiler controller EKO-CK/CKB in the oil/solid fuel version on the boiler.

CentroPlus and CentroPlus-B

SOLID FUEL / PELLETS



Basic parts

1 CentroPlus / -B boiler

3 Pellet controller CPREG Touch

2 Cm Pelet-set Touch with fan flap:

- pellet burner
- fan flap
- pellet controller
- pellet tank (0.37 or 0.8 m³)
- pellet transporter



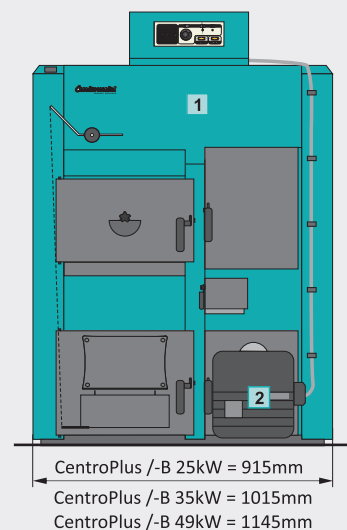
CentroPlus and CentroPlus-B boilers

FOR SOLID AND LIQUID FUEL FIRING

CentroPlus and **CentroPlus-B** steel hot water boilers can be fired with solid and liquid fuel. For this type of firing, it is necessary to install an oil burner and boiler controller EKO-CK/CKB on the boiler. In addition to firing only **with liquid fuel or only solid fuel**, a combination of firing with solid fuel and semi-automatic switching on of the oil burner at the moment when the solid fuel does not meet the need for heat is also possible. The operation of this "mini" plant is controlled by boiler controller in combination with a draft regulator when using solid fuel. It is also possible to retrofit the Cm Pelet-set Touch to the boiler with a fan flap in the pellet/solid fuel version.

CentroPlus and CentroPlus-B

SOLID FUEL / FUEL OIL



Basic parts

- 1 CentroPlus /-B boiler
- 2 Oil burner
- 3 EKO-CK/CKB controller