



Pellison X2/X3 CC

Pellet boiler

7 - 35 kW



Pellson as a way of thinking

Everything that we make is made for people. Each of our innovations was created to simplify and improve your life. We are especially proud of our advantages in automation, the energy efficiency of our boilers and the contribution to a cleaner environment. All of this is encompassed in a special way of thinking, which we call Pellson.



With next generations in mind

Pellson X2/X3 CC has an emission certificate from the internationally accredited laboratory KIWA in Italy, where it achieved top-notch results and was placed in the highest-ranked emission class (class 5). Besides having a very low greenhouse gas percentage the Pellson also boasts a very low percentage of toxic dust particles in its emission.

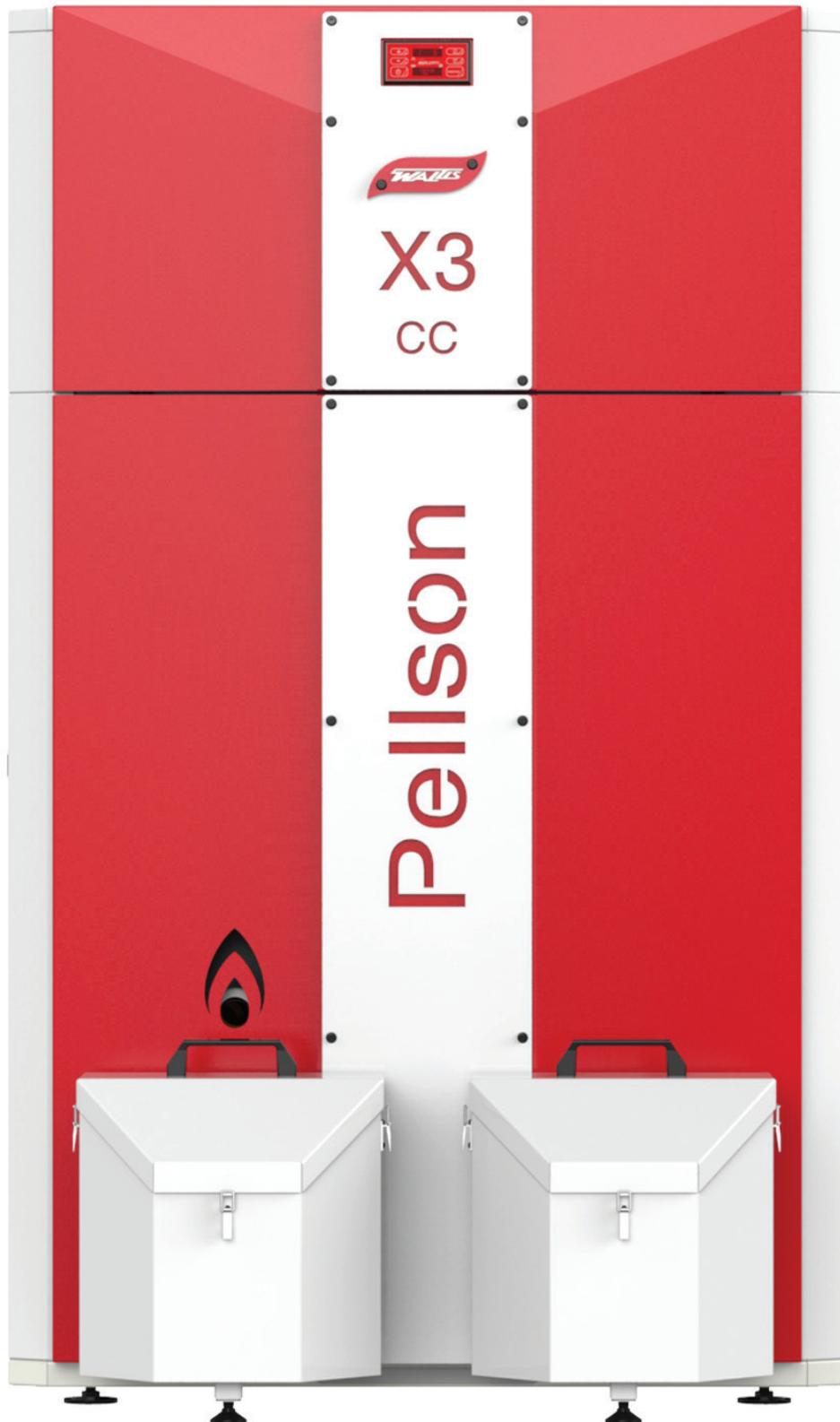


The maximum value of hard dust particles cited in the EN 202/5 standard and a requirement for a classification on the Eco fund list of combustion plants is 40mg/m³. **The value of hard dust particles when using the Pellson X2/X3 CC is 9,7mg/m³.**



WITHOUT COMPROMISES

The Pellson X2/X3 CC – model 2017 is a prestigious automatic pellet boiler, perfected down to the last detail. It classifies as an above-standard combustion plant for more demanding users, who aren't willing to compromise the comforts of a good heating system when choosing a more cost-friendly heating solution.



Autonomy

The boiler comes with a 180-kilogram pellet container, which enables it, on average, to be completely autonomous for up to a week.

Constant energy efficiency

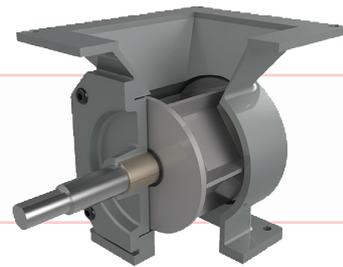
The automatic cleaning system made from highly fire-resistant materials cleans the tubular ex-changer multiple times a day and in doing so ensures a constant and high efficiency of the boiler.

Adaptability

The Pellson boilers are managed by a microprocessor which was developed by the Waltis development team with over 30 years of experience. The guiding principles in the development process were a desire for automatic adaptability of the boiler to various conditions, automatic operation and extraordinary ease of use. The activity of the boiler is completely automatic and adapts to the current heating needs of the building.

100 % secure

A chamber dispenser for protection against fire hazards makes sure, that the pellets in the container are physically separated from the burner feed system at all times.



A **Volcanic burner**, which is a product of the development and manufacturing efforts of Waltis, makes the boiler one of the eco-friendliest combustion plants. The pellets are brought into the burner from underneath, where they are first gradually heated and dried and then incinerated. With the use of this technology the combustion of the pellets is extremely stable and reliable.

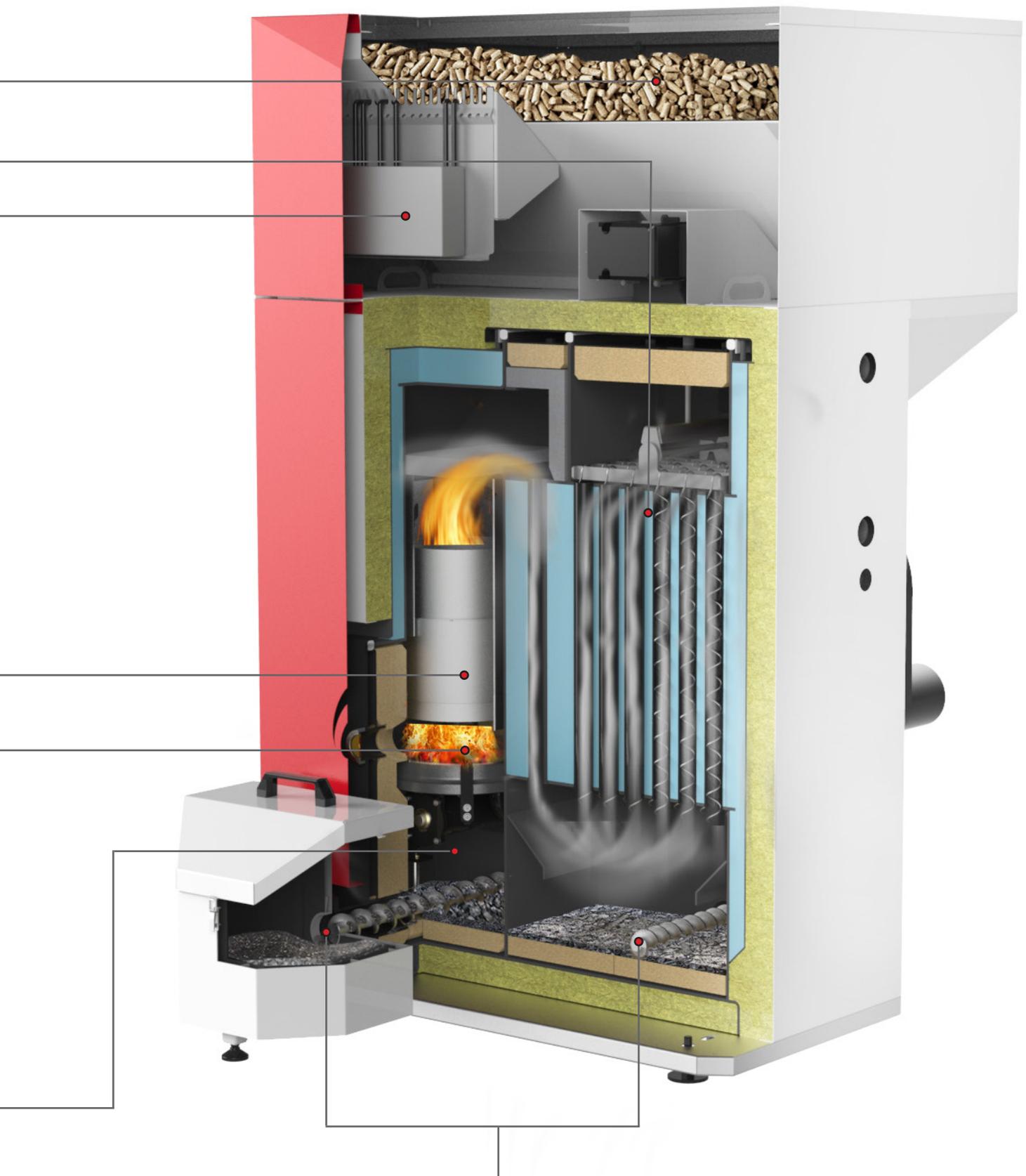
Longevity

The ignition of the pellets is performed by a high-temperature fan of the Leister brand, made in Switzerland. The advantage of using a fan as opposed to other ignition devices lies in the speed of the ignition and in an ability to ignite pellets with higher humidity. The fan is not a consumable like other ignition elements but a permanent component of the boiler.



5-millimeter-thick boiler sheet metal

All Pellson products are made with 5 millimeter boiler sheet metal, which is a basis for a long life-time of the boiler.

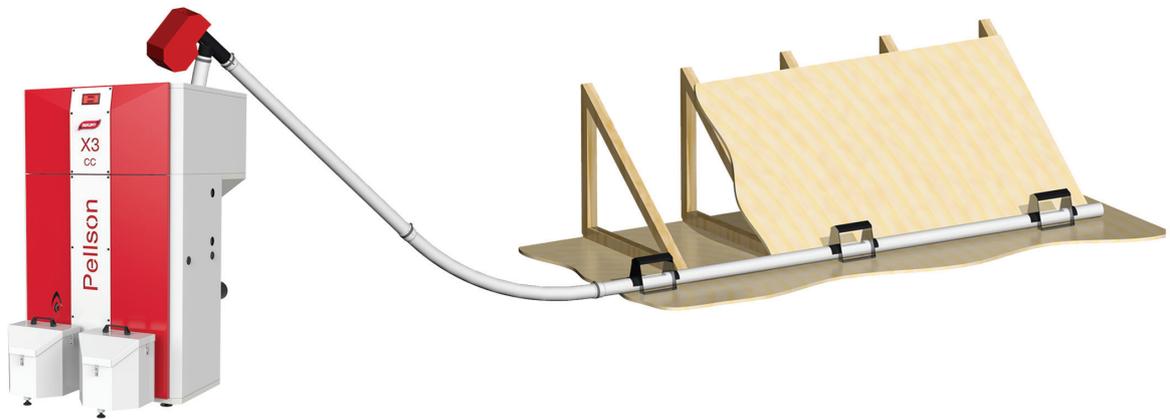


Comfort

The automatic ash drainage from the firebox and the chamber disperser enable such a level of comfort, that we never have to open or clean the boiler. All the ashes, which remain from the burning of the pellets are automatically dispersed to a container at the front part of the boiler, which only needs to be emptied 3-6 times a year.

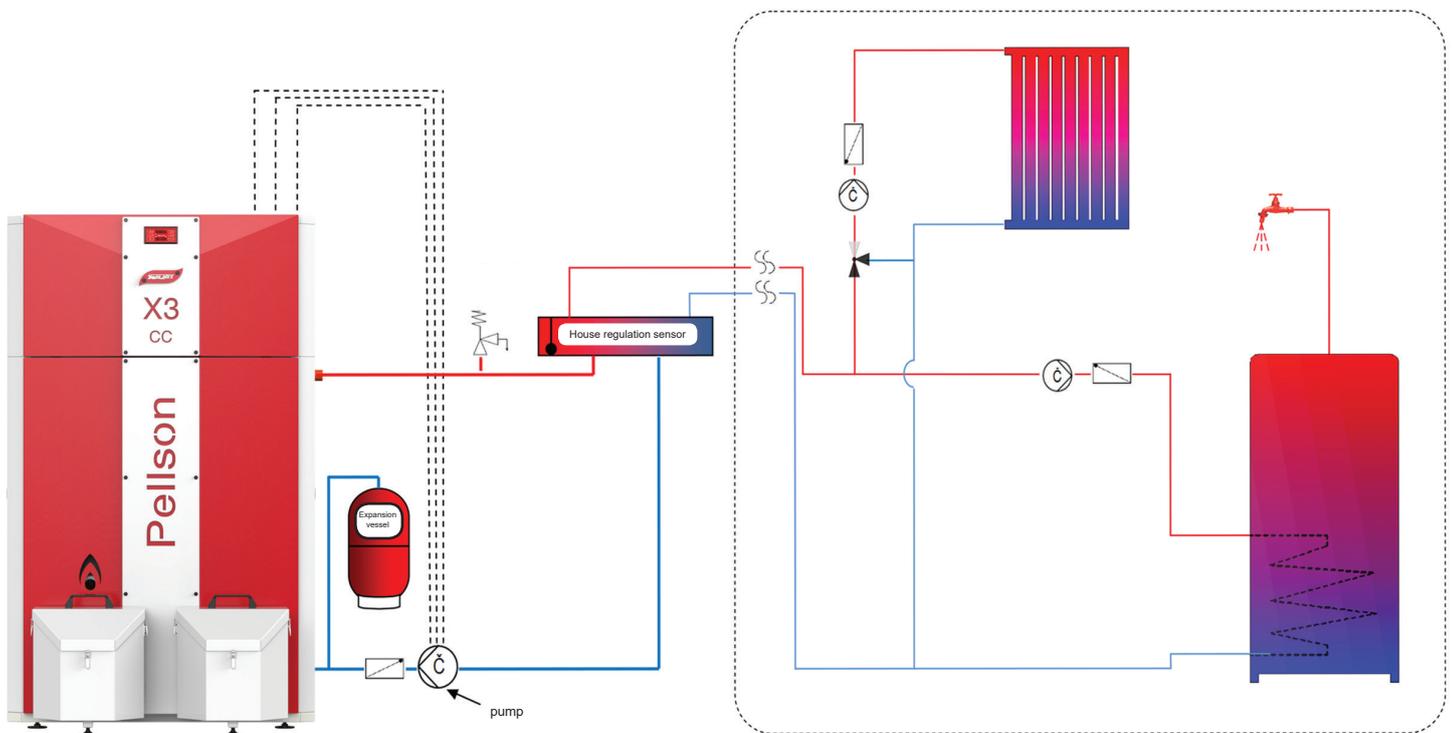
A system for pellet dosing from the yearly con-tainer

The system is suitable for buildings with added room near the boiler room, where it's possible to build a yearly pellet container. The system is extremely flexible and can be installed in various spatial situations. The system also includes regulation, sensors and everything else that is necessary for an autonomous operation. The pellet container is specifically designed for each building based on the available space.

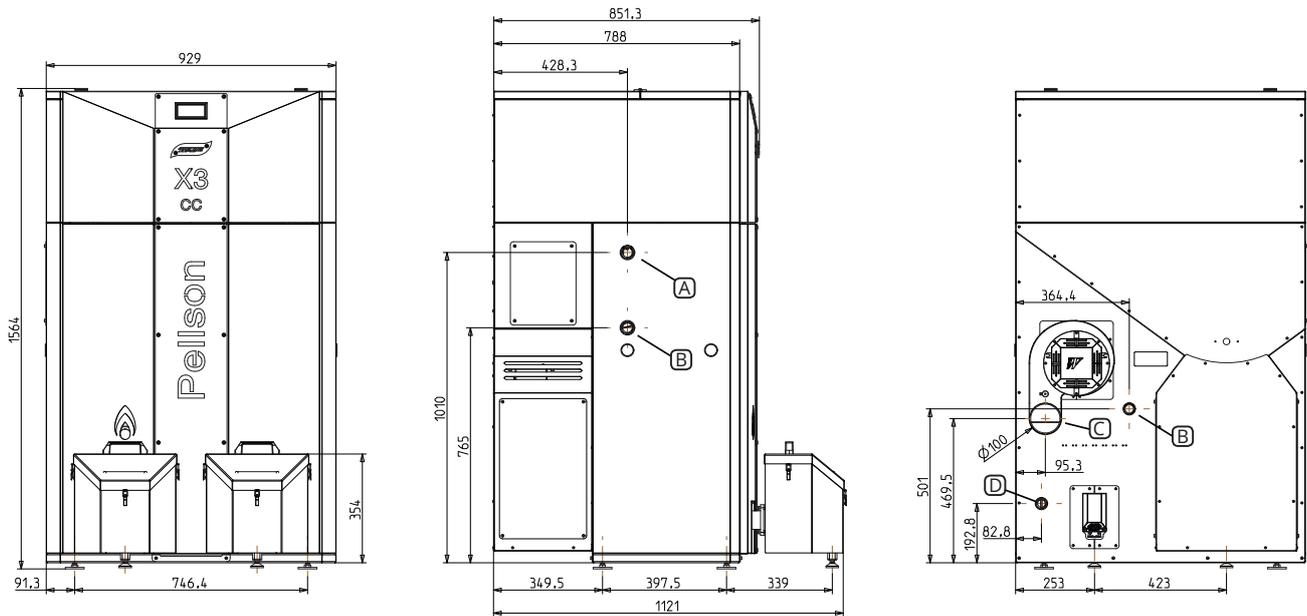


Boiler circuit scheme

The hydraulic circuit scheme of the boiler has to be done in a way that protects the entry of returning water into the boiler, since its temperature should not fall under 50 °C because of possible condensation on the boiler. The pump is automatically turned on and off by the regulation system of the boiler.



Pellson X2/X3 CC dimensions:



Connector dimensions:

Position	Dimensions	Description
A	1"	Hot water
B	1"	Return line
C	100 mm	Chimney connection
D	3/4"	Charging connector

Boiler Characteristics:

Description	Unit	Pellson X2 CC	Pellson X3 CC
Boiler output (min/max)	[kW]	7.1/24.73	9.3/34.5
Boiler efficiency (min/max)	[%]	91.15/91.88	91.49/93.81
Dust	[mg/m ³]	9.7	14.8
Boiler weight	[kg]	450	450
Water volume in the boiler	[l]	95	95
Pellet hopper maximum capacity	[kg]	180	180
Max. operating pressure	[bar]	2	2
Max. temperature hot line	[°C]	80	80
Min temperature cold line	[°C]	50	50
Pellet consumption min/max power	[kg/h]	1.58/5.44	2.09/7.42
Boiler power supply voltage	[V/Hz]	230/50	230/50



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