

# Janfire Jet System



**Pellet Systems from 60 to 600 kW**  
Heating - Hot Air - Steam

## Janfire Jet System

We would like to introduce the Janfire Jet System to you! It is a high flexible „building block“ System for the burning of wood pellets. The controller, the burner and the heat exchanger, the flue gas system and the transportation systems for pellets and ash are part of this system. The heat exchanger can be a boiler, a steam boiler or a hot air system.



The heat exchanger, the burner and the controller are at the same size as an oil- or gas system with an equal capacity. The transportation systems for ash and pellets are very flexible and can be customized very easily. Because of that the Jet System can be placed for example in your heating room that already exists. The silos for pellets and ash can be located outside. If this is not possible or you would prefer to use the heating room in an other way, we offer container based solutions, too.



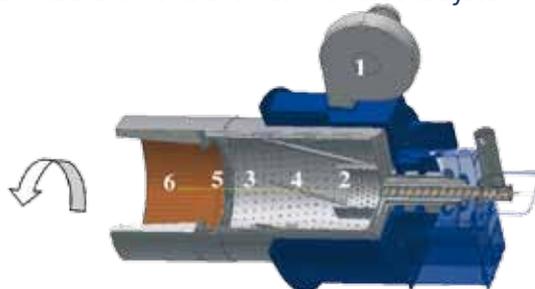
New in the Jet Family: a directly heated hot air system.



The air heat exchanger can deliver hot air from about 100° C up to 400° C depending on the application. It can be used in an air heating system, a dryer or what ever you can imagine to do with hot air.

## The Janfire Jet Burner

The Jet Pellet Burner is the heart of the Jet System.



- 1) Fan
- 2) Electric Ignition
- 3) Rotating Burner drum
- 4) Actuators to mix up the fire bed
- 5) Nozzles for secondary air
- 6) Ceramic combustion chamber

Because of its unique rotating Burner drum the Janfire Jet Burner burns pellets with very low emission and very high efficiency in a small device. The fire bed is mixed up continuously during the process, so no slag can stuck to the walls of the drum and the pellets burn completely.



Of course the Jet burner has an electric ignition system.

A progressive control system is part of the Janfire Jet System. The output of the burner can be adjusted continuously from 2% up to 100% with very high efficiency and low emission, even at the lowest power level. The oxygen level is monitored and adjusted. All the auger systems are handled by the controller too. The standard controller can be customized to your requirements. We want to mention that the controller with all its features is still very robust and reliable!



## The ash cleaning system

The ash which is generated during the combustion will be removed at two points from the system.



An ash scraper scraps the ash out of the combustion chamber and transports it into the ash fall, from where the ash gets to an ash pit or into the ash transportation system.



A cyclone removes the ash from the flue gas and leads it to an ash pit or into the ash transportation system.

## The auger system for pellets or ash

For the transport of pellets and ash we use a special auger system. This system is robust, reliable and flexible at the same time! The system can be customized for your situation and it is easy to maintain.



Here you can see a pellet system for 2 x 200 kW Jet Burner. The Y-Piece works like a buffer and keeps the level sensor which is needed to monitor the pellet transport. From the dosing auger the pellets get into the burner through a flexible plastic hose.

## Sizes

The Janfire Jet System is available in different sizes: 60 kW, 100 kW, 150 kW, 200 kW, 300 kW, 400 kW, 600 kW

Further sizes will be ready soon.

## What is possible?!



6 x 200 kW hot air system to heat up a bakery. This plant is producing hot air up to 400° C, which is given into the baking oven.



200 kW hot air system for a wood chip dryer. The burner in this system is running with pellets and during a long-term test with wood chips G20.



2 x 400 kW heating system for a hall of residence.

And many more projects!!!

We are looking forward to your request.

Further Products and Services:



Compact



Monoflame



Duoflame



Jet System



log boiler UK15



wood gasification stove



micro block heat and power plant



We are looking forward to your request.

**SIB**  
engineering office for renewable energy systems

Rotkehlchenweg 12  
D-25421 Pinneberg

Fon: 0049 4101 48 07 32  
Fax: 0049 4101 48 07 31  
Mobil: 0049 1578 44 66 804  
Janfire Service: 0049 1512 41 90 152  
EMail: info@sibbertsen.com  
www.sib-heiztechnik.de

Technical change, errors in translation and literal errors excepted.

**Janfire**  
pelletswärme