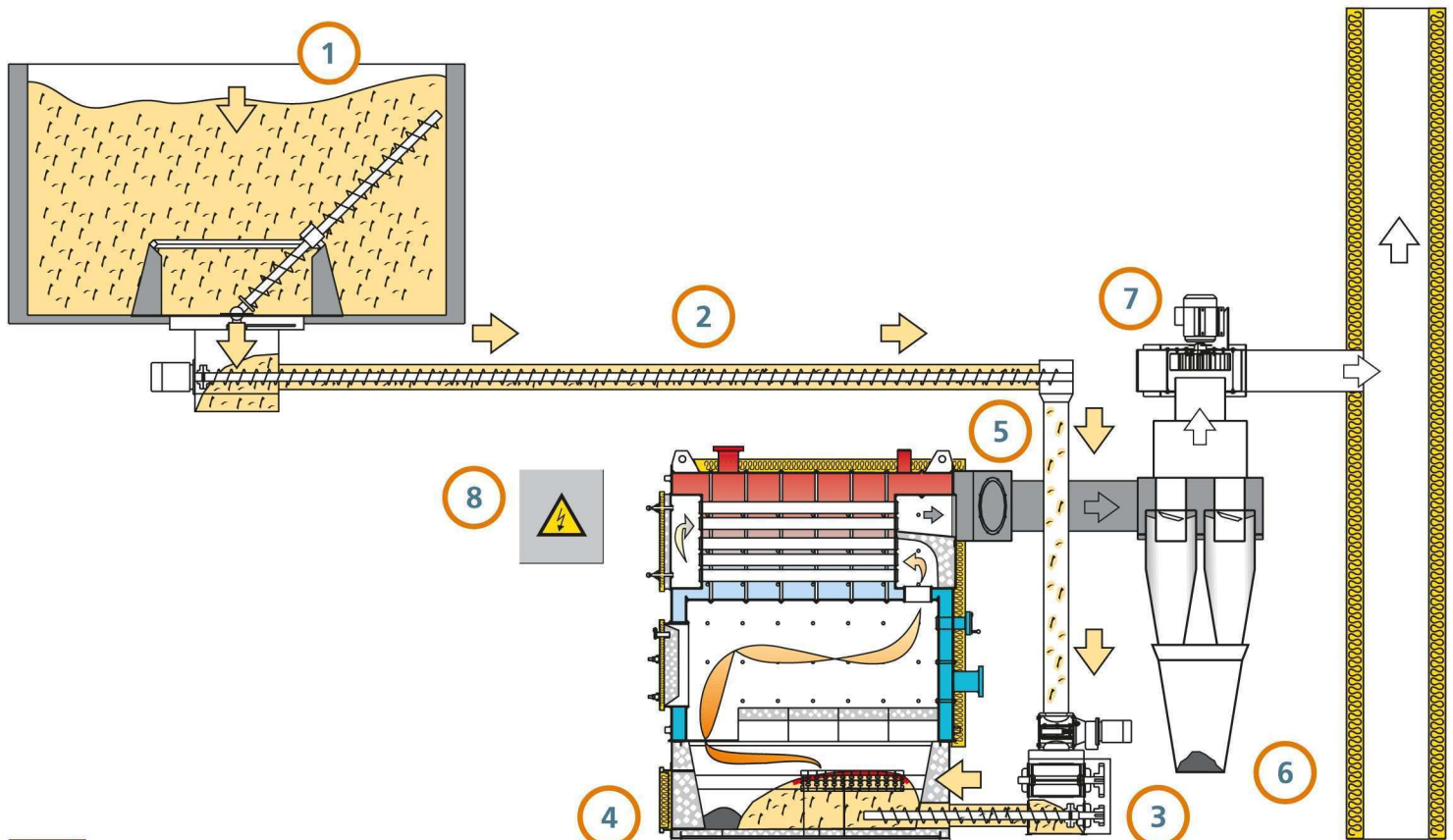





Wood chip heating

Dry wood waste



 Fuel (wood chips / wood shavings)


 Return flow hot water

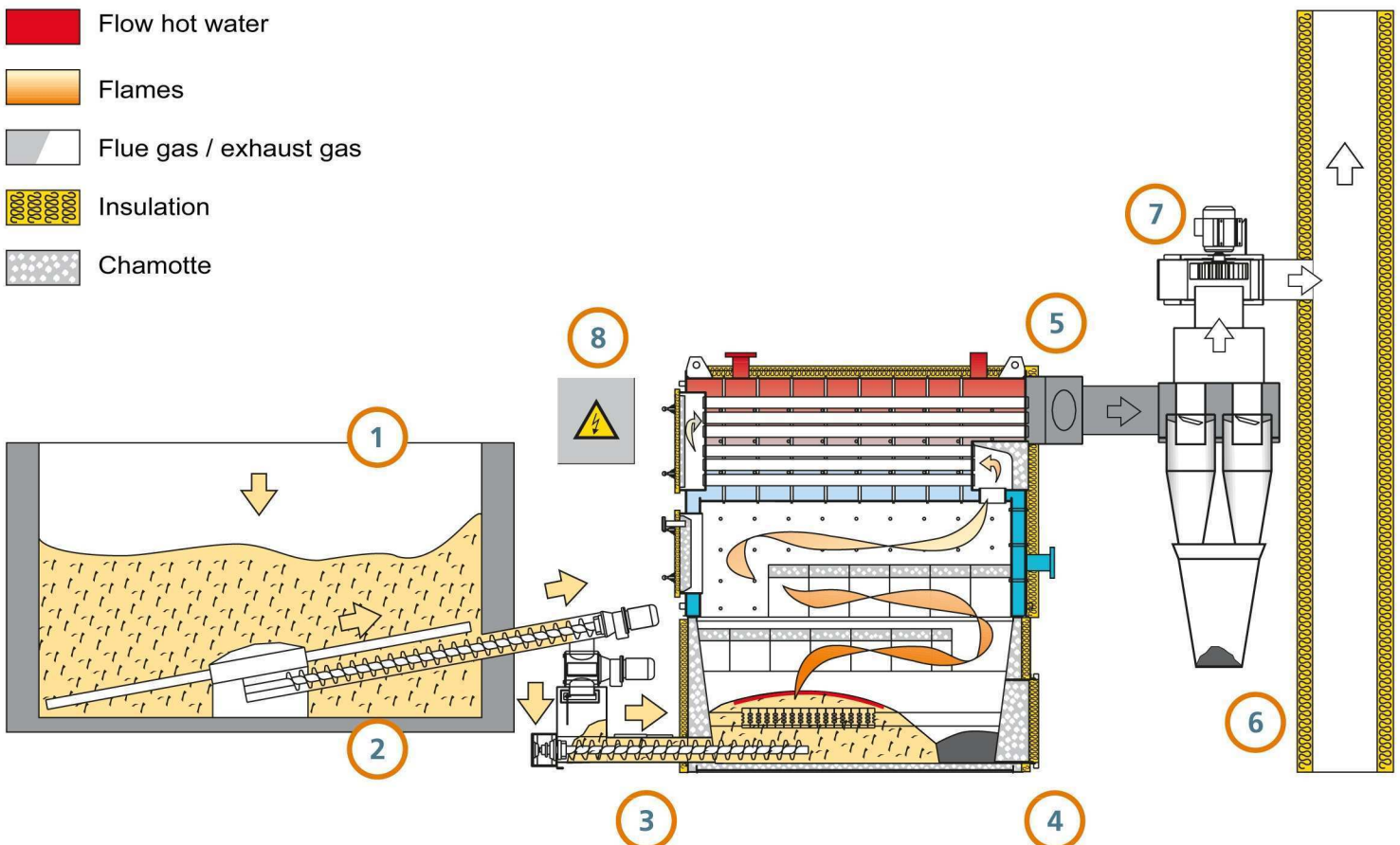
 Flow hot water

 Flames

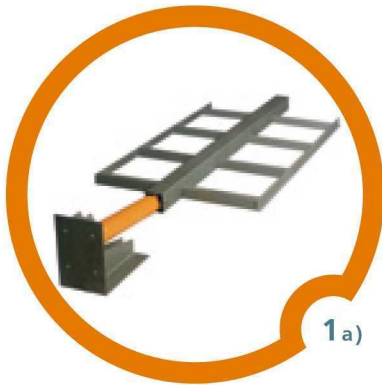
 Flue gas / exhaust gas

 Insulation

 Chamotte



Wet wood waste



Silo- and storage tank discharges

1 designed according to your needs

We designed the right type of discharge for different fuels and different sizes of wood chip boiler systems. Depending on the building situation, the wood chips or wood shavings are discharged from the silo by:

- 1 a) Push rod discharge
- 1 b) Level silo discharge screw
- 1 c) Pendulum screw discharge
- 1 d) Articulated arm discharge



Fuel transport

2 controlled automatically

Depending on the fuel requirement the SPS (in the e-control cabinet) regulates the performance of the auger.

We manufacture high performance conveyor screws to load wood chips or wood shavings into containers or trucks.



Stoker

3 security tested

The stoker transports the wood chips and wood shavings from the transport system into the combustion retort. The KURRI stoker system has been certified and type-tested to be a backfire proof (RSE) component according to regulation TRVB H 118 by state testing institutes.

3 a) Stoker Type STZ-RSE

Back firing into the silo is prevented by a combined system of steel rotary valve and gasproof rotary valve, backfire sensors and the thermally controlled extinguishing valve. This stoker is suited for wood waste with good flow properties such as waste from window- and furniture production or carpentry.

3 b) Stoker Type STK-RSE

Back firing into the silo is prevented by a combined system of a fire damper and a gasproof rotary valve, backfire sensors and the thermally controlled extinguishing valve. This stoker is used for wet saw dust from sawmills and wood chip boiler systems.



Electrical control

- 8 securing low emissions at optimal efficiency

All electrical control cabinets are equipped with modern programmable controls (SPS). Any automated regulatory systems you may require to adhere to emission regulations are installed according to your needs. All drive systems that are readjustable are equipped with energy-saving electronic rotary devices.



8

Multi-cyclone Flue gas dust removal system

- 6 high efficiency protecting the environment and low operating costs

Dust- and soot particles are separated in a cyclone separator. By connecting the cyclones parallel and serial the multi-cyclone separator has little pressure loss paired with a high separation efficiency. By using the inspection door the flue gas cyclone the concentrically placed turbulence chamber and the downstream redirection are easily cleaned. For maintenance it can be taken to pieces.

and suction draft fan

- 7 low energy consumption at optimal performance

A high temperature resistant fan sucks the flue gas through the combustion boiler. The fan wheel is made from temperature and flue gas resistant steel and is installed vibration resistant. A longlasting three-phase asynchronous motor powers the suction draft fan. The rotation speed control of the suction draft fan regulates the amount of air required for the combustion for energy efficiency. After passing through the multi-cyclone and the flue gas fan the nearly dust free flue gas is directed into the smokestack.



6+7

Boiler base and combustion chamber

- 4 optimal layout

30 years of experience in developing and building wood chip boiler systems is the guarantee for the optimal combustion chamber design. The modular construction enables the adjustment of the combustion chamber for dry wood fuel (ca. 6% atro) and wet saw dust (ca. 50% atro). Another combustion chamber design enables you to burn chipboards as it reduces the forming of NOx. The special boiler base has a large ash removal door on it's front and is designed for the underfeed stoker screw. (An automated ash removal system is optional.) The combustion chambers fireproof brickwork and vault are designed for high temperature radiation. In the boiler base the stoker pushes the fuel into a fuel heap in the burning hollow of the combustion chamber. Using four or six adjustable break discs the combustion airflow can be regulated exactly. Radiant heat from the Chamotte casing is used to combust the fuel heap. The amount of fuel and the amount of combustion airflow are completely coordinated. This ensures the fuel to combust at optimal efficiency while remaining inside the burn chamber for the right time, combusting it completely.

Boiler

- 5 robust and generously dimensioned

The boiler series type HK are constructed as welded steel boilers with 3 draft flame pipe and flue gas pipe design in a recumbent position. Regulations EN 303-5 and ÖNORM M 7550 concerning wall thickness are surpassed in all details with our design. The flame pipe has an open bottom. The hot flue gas that originates in the combustion chamber transfers it's heat to the heating medium (water) inside the boiler. The combustion chambers flame burns at 900 - 1000 °C under normal conditions. The rectangular door located on the front of the burning chamber is used for cleaning the flame pipe. It has an inspection hole to surveil the combustion. The necessary cleaning equipment is included in the delivery.



5



4



+ Personal consultation

is important to us at Kurri, company owner Ing. Ernst Kurri and his competent staff guarantee for punctuality and reliability in consulting, planning and execution of the installations.

+ Obtaining energy

Modern heating systems enable us to dispose of the wood waste created by workshops in an environment friendly way obtaining energy from our waste.

+ Overall concept

Profit from our rational series production and our purpose orientated modular construction.

+ 30 years of experience

planning and constructing individually designed wood chip heating systems both nationally and internationally.

+ Efficiency

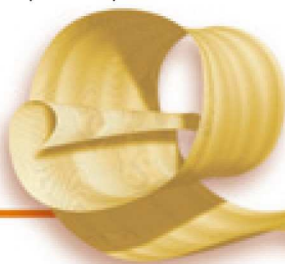
Don't burn your money while heating! Calculate and gain room around you, time, energy and money.

+ Excellent quality

The official state testing institutes confirm for our products: „ ... they are superior to the other products available or have better performance!“

+ Research and development

The multi-cyclone was developed in cooperation with the Austrian Research-Funding-Fonds. The multi-cyclone combined with the optimal dimensioned burn chamber and the generously designed boiler's heat exchanger surfaces provide for compliance with the strictest flue gas regulations in Europe and optimal use of resources.



System**KURRI**®

= **YOUR GAIN!**



Kurri is represented by: