



# Heating with wood chips and pellets



**firematic**

90 - 150

# Advantages of the HERZ firematic boiler



## User friendly with:

- Easy operation
- Automatic cleaning system



## Economy of operation with:

- High level of efficiency
- BioControl 3000 with energy management
- Energy efficient drive technology
- High quality materials



## Environmental friendly with:

- Low emissions
- Local resourced fuel (wood chippings G30 (max size)- W35(max moisture in %), pellets)
- Alternative fuel (on request)



## 20 years experience

- In house development and testing
- European wide distribution
- National service cover
- ISO 9001 certified



*firematic*



# The of the firematic boiler



## The **system controls the complete energy supply.**



Buffer storage management



HERZ Buffer storage tank  
Hot water processing

Digital interface

RS 232  
CAN-Bus  
Remote supervision (optional)  
Remote maintenance (optional)  
PC-Visualisation (optional)  
Heating zones modules  
Solar circuit module



Additional Heating



Solar equipment



# BIOCONTROL 3000



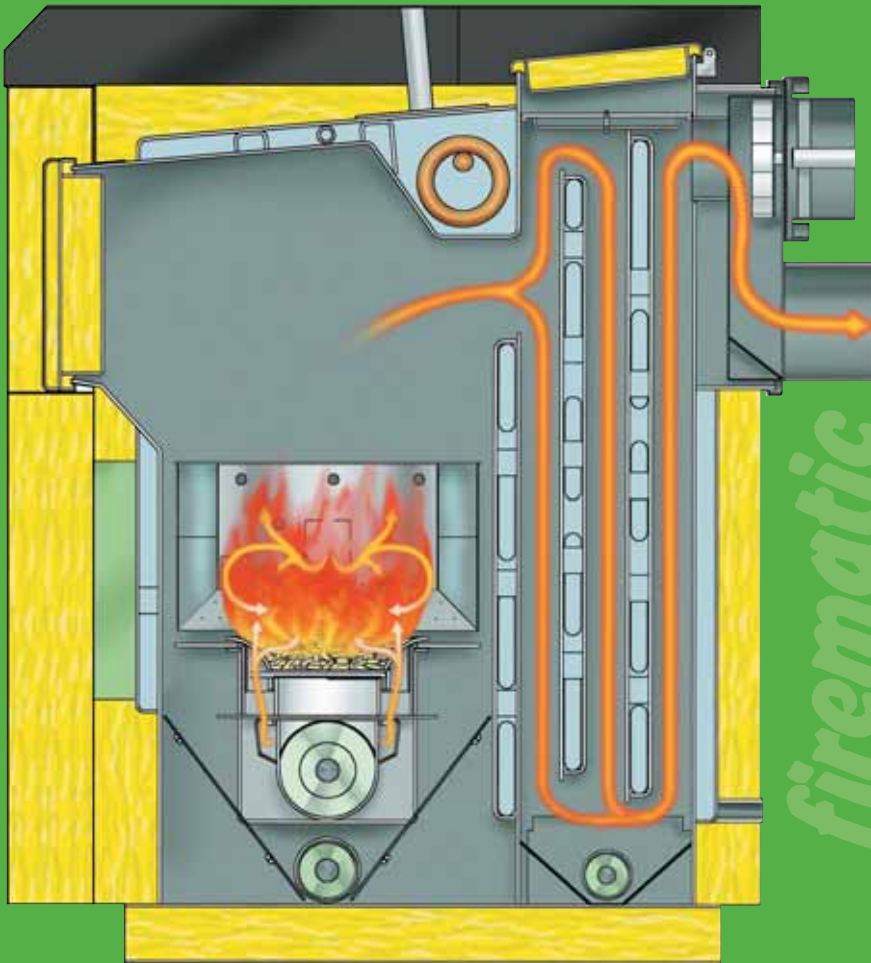
Weather compensated heating zones



Possibility of remote supervision and remote maintenance

 **Herz**<sup>®</sup>

# Technical Details and...



firematic

## Fuel transport and dust control by:

- Intermediate fuel storage tank
- Infrared light barrier system

## Clean Combustion by:

- Fuel supply and air control with lambda probe
- Optimised combustion with low-pressure control
- Self cleaning burner **during operation**
- **Infinitely variable regulated** primary and secondary air supply

## Triple burn-back control system:

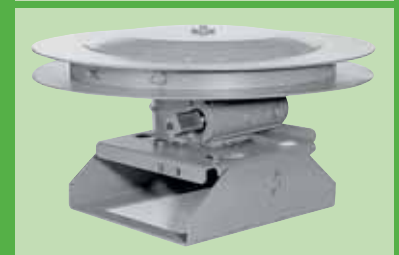
- Burn-back safety device for fire control BSD (IBS tested)
- Fire control unit with 5l water storage FCU
- Internal screw with electronic temperature control device

## Reliable ignition with:

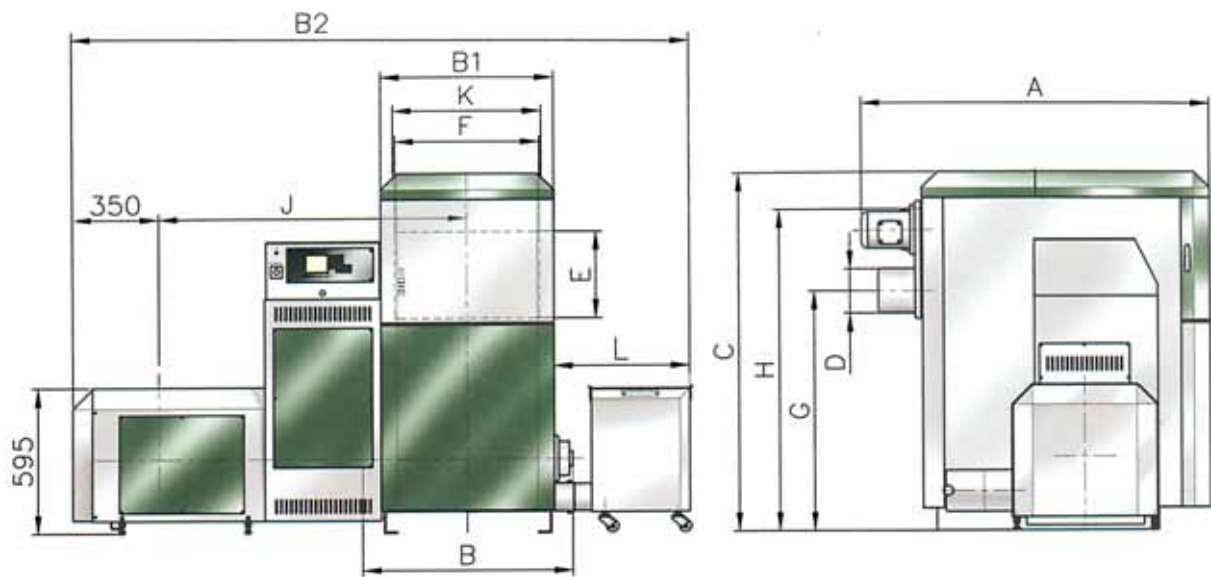
- High-quality hot air fan

## Sturdy motor with chain drive:

- High torque moment
- Low energy consumption



# ... Dimensions of the firematic boiler!



Technical Specification		90	150
Output range	kW	27-90	45-150
Max. Permissible feed pressure	mbar	0,10	0,15
Permissible operating pressure	bar	3,0	3,0
Max. Permissible flow temperature	°C	90	90
Flue gas temperature	°C	180	180
Flue gas mass flow	kg/s	0,051	0,092
Water capacity	L	215	350
Boiler weight	kg	1085	1390
Flow dimension (female thread)	Zoll	6/4"	F 3"
Return flow dimension (female thread)	Zoll	6/4"	F 3"

We reserve the rights for technical modifications

Dimensions (mm)	90	150
A Length	1555	2225
B Width (maximum for access)	920	1200
B1 Width (boiler)	798	998
B2 Width overall	2705	2905
C Height	1725	1725
D Flue pipe diameter	180	250
E Height - Inlet hopper door	320	320
F Width - Inlet hopper door	600	800
G Height for flue – centre line	1200	1190
H Height for flow/return connection	1505	1440
I Height for return flow connection	-	770
J Distance boiler – centre line to BSD	1305	1405
K Distance for flow/return flow connection	595	-
L Distance between the boiler to the end of the ash container	650	650

## firematic:

Suitable for every boiler room and storage room

## Quick responding:

No fireclay used therefore quicker response times

## Fuel level monitoring:

Electronically monitored, therefore no wear

## Customized

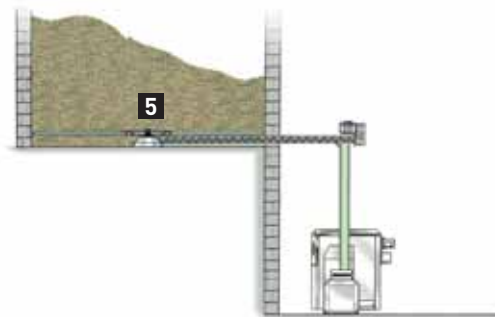
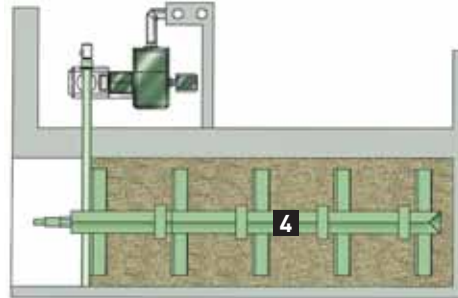
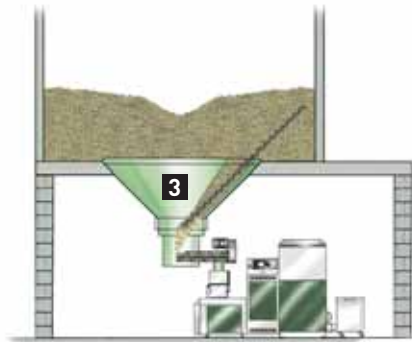
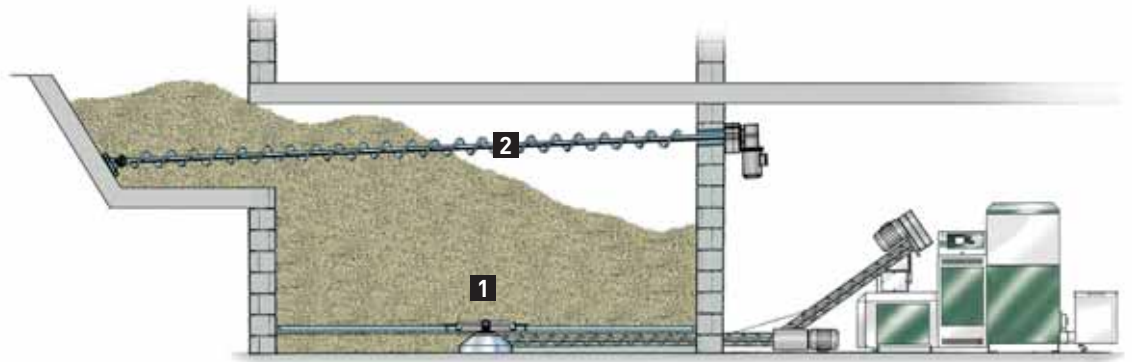
equipment design by qualified HERZ technicians



# Wood chips easily stored



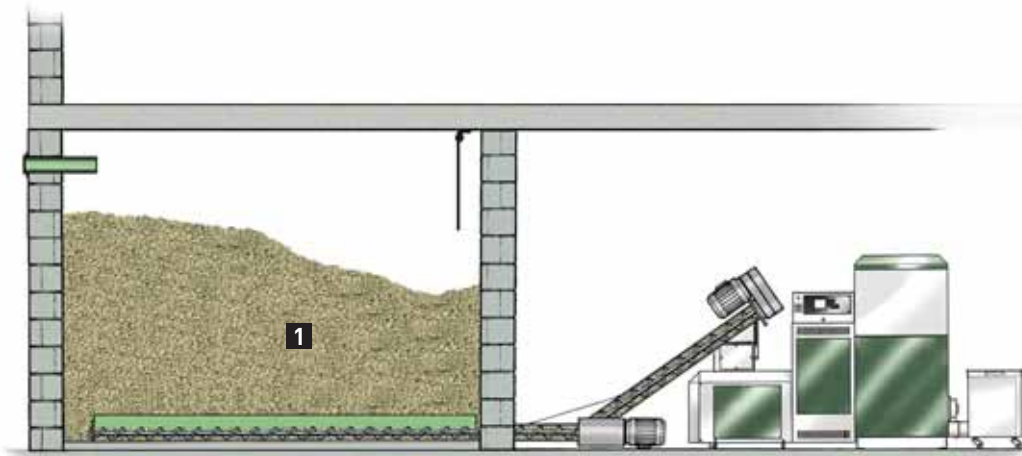
HERZ-fuel transport systems allow variable storage room designs in accordance with customer requirements



- 1** Fuel transport over horizontal spring-arm agitator
- 2** Fuel bunker with distributing screw conveyor
- 3** Boiler room with fuel storage above  
Fuel transport with pendulum screw out of storage silo
- 4** Fuel transport with torque rod and cross screw conveyor
- 5** Boiler room with fuel storage below  
Horizontal transport with spring-arm agitator
- 6** Fuel storage and boiler room on different levels  
Horizontal transport with spring-arm agitator
- 7** Fuel storage and boiler room on same level  
Angled transport with spring-arm agitator

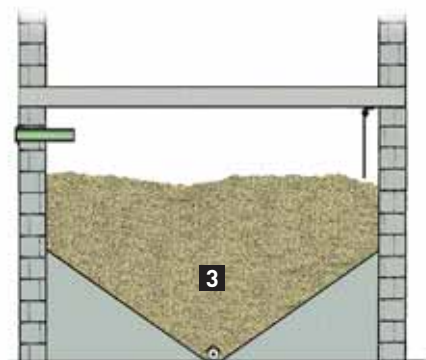
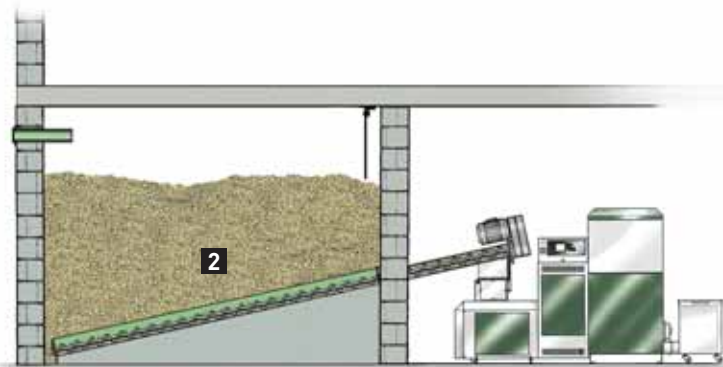
# Pellets: Heating from 27-150 kW

HERZ-Firematic: Environment friendly energy for heating residential dwellings, schools, nurseries and industrial buildings.



The high output capacity of the firematic with pellets and wood chips makes it suitable for heating up to 150kW. It is an ideal heating system considering the low fuel prices and the environmental friendly combustion. The operation with wood chips is especially suitable for contracting-models where the wood supplier is also the energy supplier. Pellet systems require less space for fuel storage.

- 1** Fuel storage for the whole year. Space requirement similar to an oil tank. Construction with swivel screw for space saving storage.
- 2** Fuel transport with angled screw conveyor
- 3** For systems without spring-arm agitator the angled slides have to be a minimum of 45 degrees







# In **harmony** with the environment!

## Energy management with **methodology**

- Controlling for the complete heating system
- Optimum system design
- Single source supply for all components
- High fuel economy
  - High performance combustion technology
  - Easy to operate and control
  - Comfortable room temperature control

HERZ-  
Feuerungstechnik  
exceeds the strict  
emission regulations



Your Partner:

### lakeside biomass

lakeside barn black hole lane

bartestree

hereford hr1 4be

08005 999555



HERZ Armaturen Ges.m.b.H.  
Geschäftsbereich Feuerungstechnik  
A-8272 Sebersdorf  
Tel. +43/(0)3333 / 2411 - 0  
Fax +43/(0)3333 / 2411 - 73  
office@herz-feuerung.com  
www.herz-feuerung.com