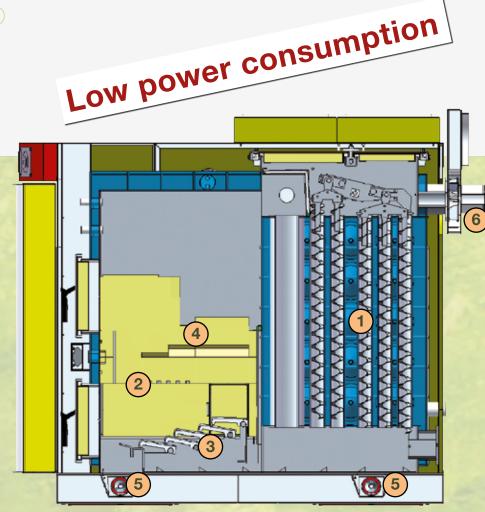


WOOD CHIP HEATING

HPK-VR 80, 98, 110



Efficiency of all boiler models in part and full load up to 95,4%



HPK-VR 80, 98, 110

WOODCHIP BOILER HPK-VR

New highly efficient wood chip boiler with latest forward feeding grate technology. This high performance boiler shell is produced as a tension-free welded unit. The insulated front door opens fully to the side for maintenance and servicing. The cleaning of the heat exchanger is fully automatic. The generously proportioned combustion chamber is built out of industrial fire bricks and guarantees dwell time for the flue gases to give exceptionally clean combustion. Combustion is exactly controlled by one modulating flue gas fan, primary and secondary air dampers in conjunction with lambda probe, flue gas temperature and negative pressure control. Using only one modulating fan reduces complexity and electrical consumption.

Key points:

- Burning of less than ideal and clinker creating materials possible.
- > For example: Wood chips with high water content, wood chips with a high bark and needle content, maize cores, oil seed rape straw and miscanthus, etc.
- ➤ Fully automatic heat exchanger cleaning and under grate ash discharge take place without stopping the boiler.
- Yeully automatic ash discharge designed to cope with clinker that may form due to chosen fuel.
- High efficiency up to 95,4%
- The test figures surpass the high requirements of the eco-labelling "UZ37" from Austria and the Blue Angel eco label from Germany.

DESCRIPTION

- Heat exchanger with generously dimensioned tubes and automatic cleaning.
- 2 High furnace completely fire clayed for the optimum burn of flue gasses.
- Moving step grate with a big grate area out of fireproofed material and under grate ash discharge.
- Exact control of the combustion air by dampers (Efficiency up to 95,4%).
- Fully automatic grate and fly ash cleaning into two ash bins (both 70l).
- 6 Latest under pressure combustion technique by a highly efficient modulating flue gas fan.

HPK-VR	80	98	110
Nominal Load	80	98	110
Length I (mm)	2200	2200	2200
Width b (mm)	950	950	950
Height h (mm)	1700	1700	1700
Weight (kg)	2150	2150	2150

Flue pipe connection	ø 250
----------------------	-------



WOOD CHIP HEATING

WOOD CHIP TRANSPORT SYSTEMS



WOOD CHIP HEATING

WOOD CHIP TRANSPORT SYSTEMS





GILLES special features

Gilles Cell wheel

The multi-tested full-metal cell wheel reliably interrupts the boiler from the fuel store and thus provides 100% protection against burn back. The blades are attached to the running wheel at an offset angle to the rotary axis to enhance the cutting action. In addition, the blades are slightly curved, which prevents noise generation and reduces compressive forces. A fixed cutting edge is integrated in the stable and noise-damping cast enclosure to reduce the size of longer pieces of material.

100% protection against burn back Proven on thousands installations



IBS proved.

Energy-saving 4-chamber system with low running surface

HEATING CONTROL SYSTEM

Intelligent control



- ✓ Higher efficiency
- Energy saving
 (Energy efficient control of the electrical components)
- Smooth control of the drives
 (Components: Ignition fan, 3 way diverting valve, transport system)





Programming and updates possible via USB stick

Benefits:

- ► Settings for different fuels
- Modulation of the boiler
- Convenient setting and alteration of all heating functions via smart phone, tablet or PC/Mac
- Automatic error message notification via e-mail
- Remote monitoring of the boiler via internet
- Graph record of all heating parameters on the internal memory
- Modular design (expandable)
- Robust design of switch cabinet
- Cascade control
- Password protected
- Modbus and/or BAC-Net compatible
- Enabling of external heat source
- Recording of all operation parameters via USB stick

Optional:

• Automatic error message notification via SMS



- Boiler & stoker status displayed
 Status display => which components
 are currently active
- All important settings can be seen on the main screen, such as temperatures, O₂ value, fans, etc.



- Display of the actual values and the set
- points

 All fans performances visible



- Trend logging over 6 months with USB Stick
 Trend log exportable to USB stick
 - All values displayed on the controller can be recorded and saved





HEATING CONTROL SYSTEM

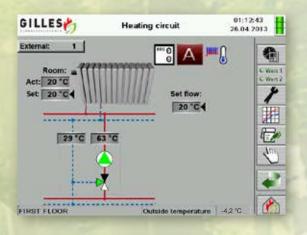


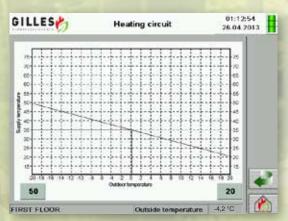


with integrated heating circuit control

Previously it was only possible to regulate the heating circuits with the room control unit. Now it's possible to control it with the Gilles touch control panel. You can regulate the heating times, room temperatures and all important parameters easily with the Gilles touch control panel. In addition you are able to change your settings with your smart phone and tablet computer.

The result of these innovations is optimal comfort with absolute control and lower heating costs.

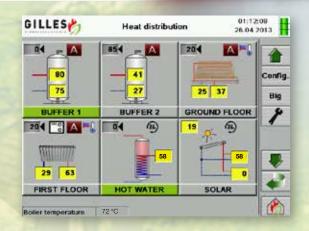


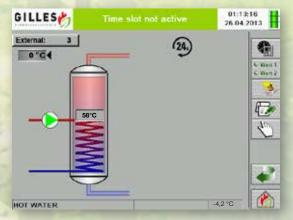


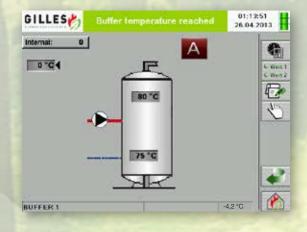




Communication via smart phone app







Visualisation link / GSM-Visualisation

